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# Bulletin of The University of Nebraska

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## FORTY-FIRST ANNUAL GENERAL CATALOG

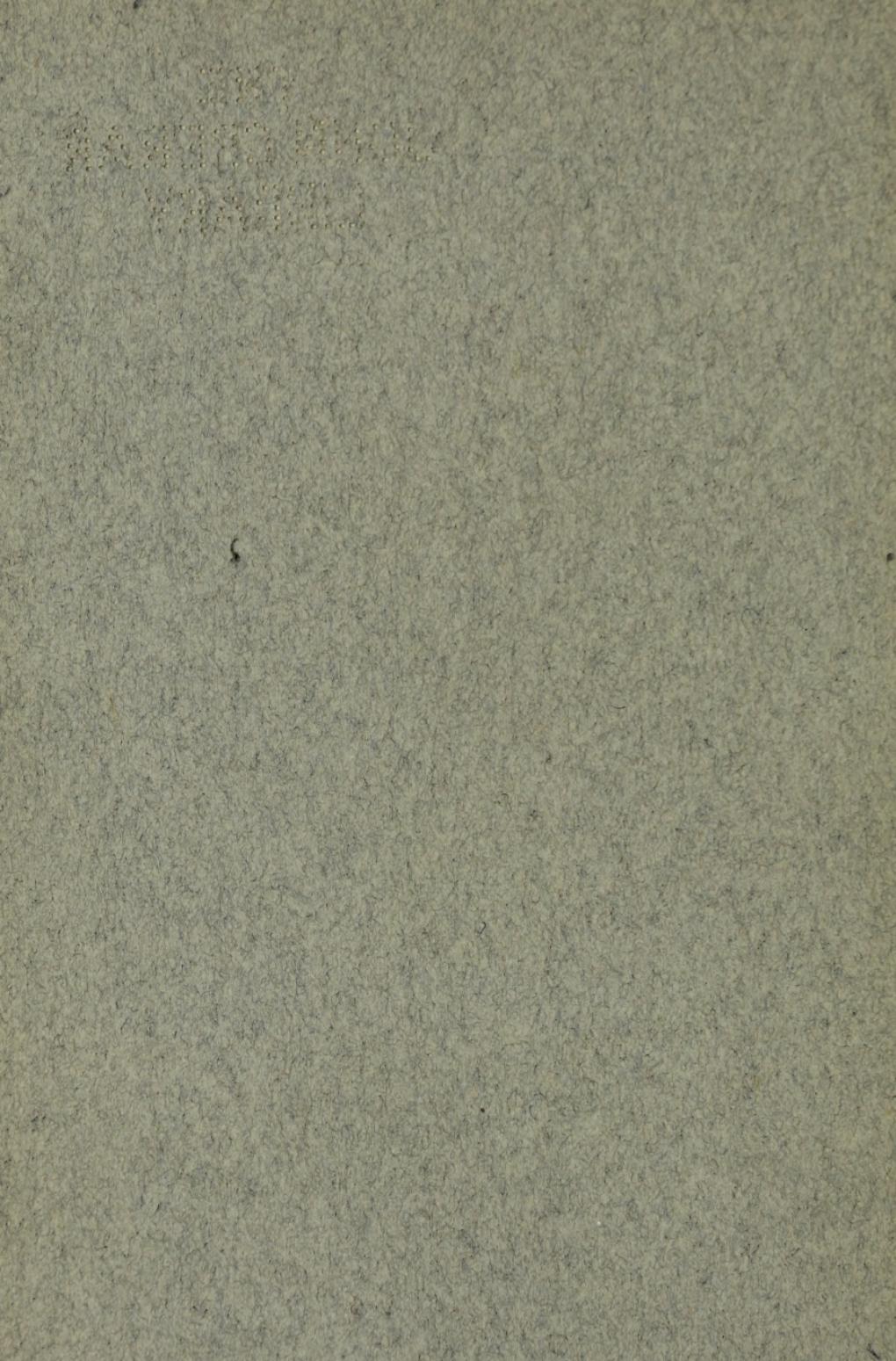
CONTAINING

THE COMPLETE RECORD FOR 1910-1911  
ANNOUNCEMENTS FOR 1911-1912



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Published by the University in June, 1911. Entered at the Post-Office at Lincoln, Nebraska, March 23, 1911, as second-class matter under Act of Congress July 16, 1894. The Bulletin of the University of Nebraska is published semi-weekly during the month of April, exclusive of the first week, and monthly in May, June and November of each year. One number each is issued of the General Catalog, College of Agriculture, the College of Engineering, the College of Law, the College of Medicine, the Summer Session, and the Schools of Pharmacy and Agriculture. A separate catalog of the Graduate College is also published. On request, any of these are furnished by the Registrar, Station A, Lincoln, Nebraska.



# Bulletin of The University of Nebraska

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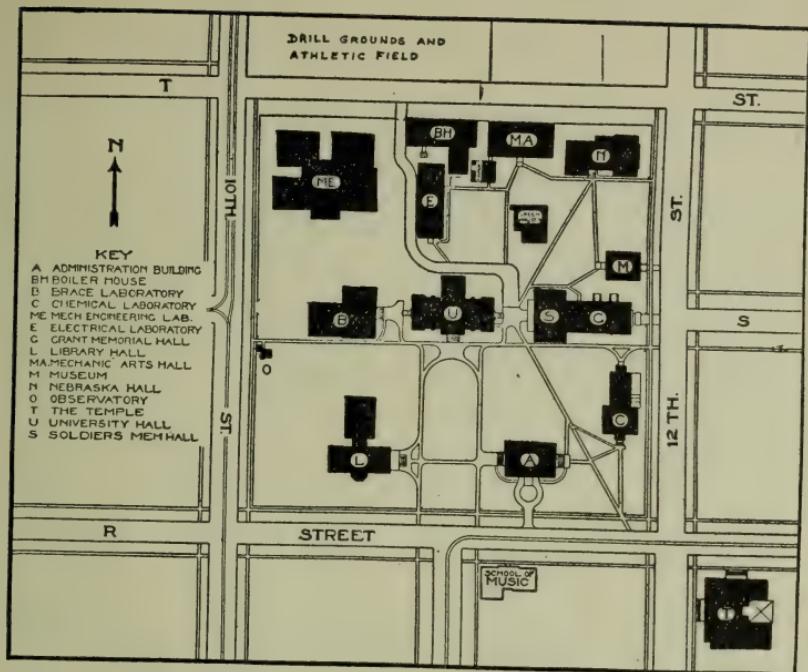


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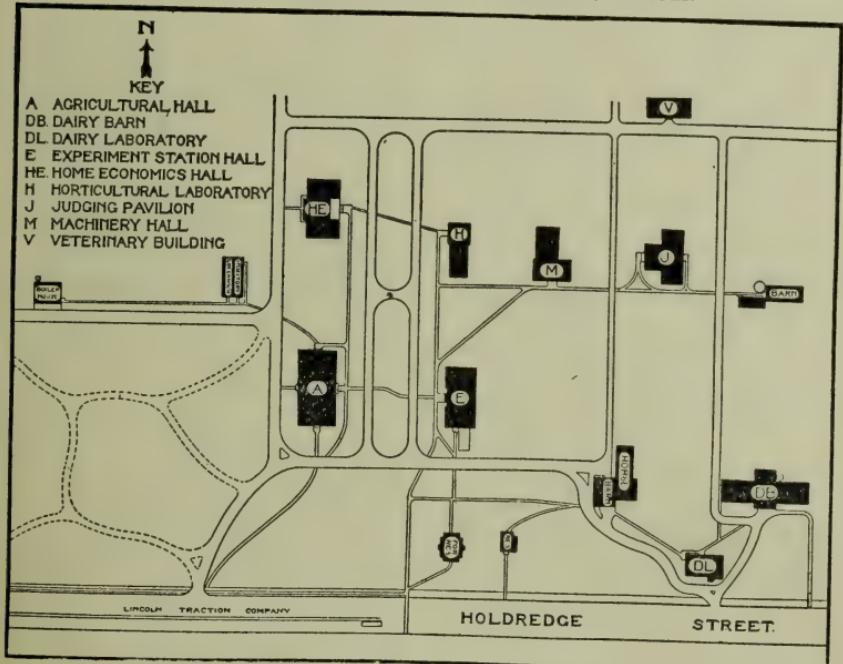
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THE MAIN CAMPUS, 11TH AND R STREETS, LINCOLN



THE UNIVERSITY FARM CAMPUS, 33d AND HOLDREGE STREETS, LINCOLN

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# 1911

## SEPTEMBER

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
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15	16	17	18	19	20	21
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29	30	31	.....	.....	.....	.....

## OCTOBER

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## NOVEMBER

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## DECEMBER

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# 1912

## JANUARY

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## APRIL

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## MAY

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## JULY

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## DECEMBER

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29	30	31	.....	.....	.....	.....

## 1911

Sept. 19-23 Registration and entrance examinations.

Nov. 29-Dec. 2 Thanksgiving Recess.

Dec. 20-Jan. 2 Christmas Recess.

Jan. 31-Feb. 3 Registration, 2d semester.

Feb. 15 Charter Day.

Mar. 18-23 Spring Recess.

May 30 Decoration Day.

June 9-13 Forty-first Annual Commencement.

**CALENDAR FOR 1911-1912 OF ALL COLLEGES AND SCHOOLS  
1911**

September 12	Tuesday	College of Medicine registration at Omaha.
September 13	Wednesday	College of Medicine, lectures begin at Omaha.
September 19	Tuesday	First Semester begins.
September 19-23	Tuesday-Saturday	University entrance examinations and registration.
September 21-23	Thursday-Saturday	Registration begins, first semester, Lincoln Dental College (associated with the University).
September 23	Saturday, 8 p.m.	University reception to all students.
September 26	Tuesday, 11.00 a.m.	Opening address, the Chancellor.
October 30	Monday	School of Agriculture, first term begins.
November 29	Wednesday, 12m.	Thanksgiving recess begins.
December 2	Saturday, 12m.	Thanksgiving recess ends.
December 12	Tuesday	Regular Meeting of the Board of Regents (first Tuesday after the first Wednesday in December).
December 20	Wednesday, 6 p.m.	Christmas vacation begins.

**1912**

January 2	Tuesday, 8 a.m.	Christmas vacation ends.
Jan. 31-Feb. 3	Wednesday-Sat.	School of Agriculture, winter course begins.
February 1-3	Thursday-Saturday	Entrance examinations and registration for the second Semester.
February 5	Monday	Registration begins, second semester, Lincoln Dental College (associated with the University).
February 14	Wednesday, 8 p.m.	Second semester classes begin.
February 15	Thursday	School of Agriculture, second term begins.
		Annual Address before the Sigma Xi Society.
		Charter Day. A holiday. Regular meeting of the Board of Regents.
		Sixteenth Annual Mid-Winter Commencement.

## THE UNIVERSITY OF NEBRASKA

April 9	Tuesday	Regular meeting of the Board of Regents (the first Tuesday after the first Wednesday in April).
March 18	Monday 8 a. m.	Spring recess begins.
March 23	Saturday, 12 m.	Spring recess ends.
April 24	Wednesday	School of Agriculture, Principal's Reception.
April 26	Friday	School of Agriculture Commencement.
May 23	Thursday	College of Medicine Commencement.
May 25	Saturday	Senior Class Play.
May 30	Thursday	Decoration Day. A holiday.
June 10	Monday, 4 p.m.	Final recommendation by faculties for degrees.
June 11	Tuesday, 6 p. m.	Second semester class-work ends.

## Commencement Week, 1912.

June 9	Sunday	Baccalaureate Sermon.
June 11	Tuesday	Annual meeting Board of Regents.
June 12	Wednesday	Alumni Day.
	9 a.m.—2 p.m.	Class reunions and dinners.
	4 p.m.	Business meeting and Alumni address. Agricultural Hall.
	5 to 7 p.m.	Alumni Banquet. The University Farm.
	9 p.m.	Alumni Cotillion. The Temple.
June 13	Thursday	Fourty-first Annual Commencement
	10 a.m.	Commencement procession.
	10.30 a.m.	Oration and conferring of degrees.
	8 p.m.	Chancellor's reception.
September 10	Tuesday	College of Medicine registration at Omaha.
September 18	Wednesday	First Semester begins (1912-1913).

# General Information Concerning the University

## THE UNIVERSITY

**Colleges and Schools of the University.** By statute, the University of Nebraska comprises the following colleges and schools:

The Graduate College

The College of Arts and Sciences including the school of Fine Arts

The Teachers College including the Teachers College High School

The College of Engineering

The College of Agriculture including the School of Agriculture

The College of Law

The College of Medicine\* including the School of Pharmacy

Information as to the object and work of each of these colleges may be found by consulting the portion of the catalog devoted to each (see general table of contents).

In addition to the foregoing, the University Board of Regents is, by law, the governing board for the Nebraska Agricultural Experiment Station, and of the Experimental Substations at North Platte, Valentine and Scottsbluff; it has entrusted to its care the superintendency of Farmers' Institutes; and the state has created a bureau for the study of Plant Diseases and Destructive Insects with the professors of Agricultural Botany and of Entomology respectively in charge as State Agricultural Botanist and State Entomologist. The state has made an appropriation for a State Conservation Commission and a State Geological Survey under general supervision of the professors of Geography and Economic Geology and of Geology respectively.

The state legislature of 1911 made provision for a second school of Agriculture, under the management of the Board of Regents, to be located in the western part of the state.

**Equipment of the University.** The grounds and buildings of the University are distributed among three groups: (1) the original campus, situated in the capital city of Lincoln, with its main entrance at Eleventh

\*The Lincoln Dental College has a contract with the University under which its students matriculate as University students for the purpose of instruction in the sciences.

and R streets, and containing sixteen buildings devoted to academic, law, medicine, and engineering instruction; (2) the University Farm, of three hundred and twenty acres, two and a half miles northeast of the original campus, containing ten buildings devoted to instruction in agriculture, home economics, and forestry; (3) the Medical College building in Omaha, at the corner of Twelfth and Pacific streets. For the latter, a new site has recently been secured in the city of Omaha, and lies between Howard and Jackson, and Thirty-ninth and Forty-fifth streets. Adjacent to this campus and on land belonging to the state, is the new Child-Saving Institute, the clinical facilities in which are under the control of the University. The legislature of 1911 appropriated \$100,000.00 to be used for building purposes. The various libraries, laboratories, museums and collections of the University, available for use by students of the University, are described in those portions of the catalog devoted to the colleges or schools with whose work they are chiefly connected.

**Government of the University:** The chancellor, chosen by the board of regents, is the chief executive officer of the University; subject to the rules and orders of the board he has both pedagogical and business supervision over the University as a whole, over the various colleges, and over all the affairs and interests of the University. For each of the colleges within the University the board of regents elects a dean, to be the presiding officer of the faculty of his college and to perform such other duties as the board or the faculty of his college may require. The faculty of each college, subject to the chancellor and the board, determines upon all matters relative to the internal affairs of its college. A University senate, corresponding to the "general faculty" of other universities, and subject to the chancellor and board, determines questions which concern more than one college or the University as a whole. The Chancellor, deans, heads and acting heads of departments, and such other members of staff as the Regents may name are voting members of the senate.

**Revenues of the University.** By an amendment in 1899 of the original act of incorporation (1869), a tax of one mill upon the grand assessment roll of the state is provided for the support of the University. Added to this are incomes from land leases and sales under the land-grant act of Congress of 1862 for the benefit of the Industrial College.\* and under the enabling act reserving seventy-two sections of land for the State University; interest on permanent fund investments; and the money grant by the

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\*In 1909, the Industrial college was erected into the colleges of Agriculture and Engineering by the state legislature; the same legislature authorized the creation of the Graduate college and the Teachers college.

act of Congress, commonly known as the Morrill Act, August, 1890, and by the Hatch Fund Act of 1887, and the Adams Act of 1906 supplemental thereto. In addition to this are the fees paid by students for various purposes.

**History of the University.** The University of Nebraska was founded by an act of the Nebraska legislature, effective February 15, 1869. The subsequent new constitution of 1875 recognized the University as thus established, placed it under the general control of an elective board of six regents, and made certain fundamental provisions as to its organization and administration. The next legislature (1877) revised the act of 1869 in accordance with the provisions of the new constitution. Under this revised act (Complied Statutes of Nebraska, Chapter 87), as slightly amended by the legislature of 1909,\* the University is at present organized and operating.

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\*See foot-note on page 8.

**THE BOARD OF REGENTS**

*HON. FRANK LOUIS HALLER . . . . .	Omaha
Term expires January, 1912.	
HON. VICTOR GERALD LYFORD . . . . .	Falls City
Term expires January, 1912.	
HON. CHARLES BARNEY ANDERSON . . . . .	Crete
Term expires January, 1914.	
HON. GEORGE COUPLAND . . . . .	Elgin
Term expires January, 1914.	
HON. CHARLES SUMMER ALLEN, President . . . . .	Lincoln
Term expires January, 1916.	
HON. WILLIAM GUNN WHITMORE . . . . .	Valley
Term expires January, 1916.	

**Committees of the Board of Regents**

Executive—Messrs. Allen, Lyford, Whitmore.

Finance—Messrs. Lyford, Allen, Anderson.

Property—Messrs. Haller, Coupland, Anderson.

Industrial Education—Messrs. Whitmore, Haller, Coupland.

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\*Elected in 1909 to serve unexpired term.

**OFFICERS OF ADMINISTRATION OF THE UNIVERSITY**

SAMUEL AVERY, Ph. D., LL. D., Chancellor and President of the University Senate. Administration Hall 101.

ELISHA BENJAMIN ANDREWS, D. D., LL. D., Chancellor Emeritus.

JAMES STUART DALES, M. Ph., Secretary of the Board of Regents and of the University Senate. Administration Hall 102.

MAX WESTERMANN, Assistant Secretary of the Board of Regents. Administration Hall 102.

\*EDGAR HARLAN CLARK, A. B., LL. B., Purchasing Agent.

\*PHILIP JOHN HARRISON, A. B., Registrar and University Publisher. Administration Hall 103.

CHARLES EDMUND CHOWINS, M. E., Superintendent of Buildings, Grounds and Construction. Administration Hall 208.

ALBERT ALISON REED, A. B., Inspector of Accredited Schools. Administration Hall 203.

ALICE BAIRD ENSIGN, A. B., Adviser to Women. Administration Hall 104.

\*DR. INEZ PHILBRICK, Consulting Physician to Women.

MABEL DUNN, M. D., Consulting and Examining Physician for Women.

SENATOR WILLIS PERIN, Superintendent of the University Farm.

WILLIAM PATTON SNYDER, A. B., M. S., Superintendent Experimental Substation at North Platte.

JAMES COWAN, M. M. E., Superintendent of Experimental Substation at Valentine.

FRITZ KNORR, B. Sc., Superintendent of Experimental Substation at Scottsbluff.

WILLIAM HILL DUNMAN, Landscape Gardener.

HARLAN ALFRED EVANS, Purchasing Agent.

ALLEN REED BEACH, Chief Clerk at the University Farm.

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\*Resigned.

WILLIAM WARNER MARSHALL, Executive Clerk of Nebraska Experiment station.

JOHN GREEN, Engineer of Heating and Power Plant.

EDWARD EMIL ANDERSON, B. Sc., Assistant Superintendent of Construction.

WILLIAM WARD VOTAW, Assistant Superintendent in charge of Grounds, Buildings and Janitors.

FREDERICK ADDISON HOSFORD, Electrician.

LULU MENLOVE, Head of Stenographic Bureau.

VADA CLEGG VENNUM, Assistant Registrar School of Agriculture and Assistant Secretary to Faculty of College of Agriculture.

MAUDE RENNIE ORD, Secretary to the Chancellor.

ADOLPH MAX VOSS, A. B., Assistant Inspector of Accredited Schools.

EDWARD MARKWOOD RUTLEDGE, A. B., Assistant Registrar.

MAUD CHEUVront, Executive Clerk, Registrar's Office.

FLORENCE McGAHEY, A. B., Assistant in Registrar's office.

JULIET MITCHELL VORE, Assistant in Registrar's office.

LEO JOSEPH LOGAN, Clerk, Secretary's office.

TERRY ARTHUR WILLIAMS, Clerk in Secretary's Office.

VANCIL KELSO GREER, LL. B., Assistant in Purchasing Agent's Office.

EUNICE WILLIS, Assistant in Stenographic Bureau.

HAZEL SYRENA THORNBURG, Assistant in Purchasing Agent's Office.

MARGARET HARKINSON VOLBEHR, Stenographer in Teachers Bureau.

#### Of the Colleges

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Dean.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Dean of the Graduate College.

ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences.

EDGAR ALBERT BURNETT, B. Sc., Dean of the College of Agriculture, Director of Nebraska Experiment Stations.

\*CHARLES RUSS RICHARDS, M. E., M.M.E., Dean of the College of Engineering.

CHARLES FORDYCE, Ph. D., Dean of the Teachers College.

WILLIAM GRANGER HASTINGS, A. B., Dean of the College of Law.

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\*Resigned.

ROBERT HENRY WOLCOTT, A. M., M. D., Acting Dean of the College of Medicine.

WILLSON ORTON BRIDGES, M. D., Associate Dean of the College of Medicine.

#### Of the Schools

\*ALBERT EUGENE DAVISSON, A. B., Principal of the School of Agriculture.

MRS. A. E. DAVISSON. Acting Principal of the School of Agriculture to September 1, 1911.

FRED MAURICE HUNTER, A. B., Professor of Secondary Agricultural Education and Principal of the School of Agriculture.

SARA SHEWELL HAYDEN, Director of the School of Fine Arts.

RUFUS ASHLEY LYMAN, A. M., M. D., Director of the School of Pharmacy.

GEORGE CROCKER, B. Sc., Superintendent of the Teachers College High School.

†ROBERT HART WATSON, Supervisor of Teachers College High School.

ANNA MAY TIBBETS, A. M., Principal of the Teachers College High School.

JULIA EMMELINE LOUGHridge, A. B., Assistant Principal of the School of Agriculture.

#### Of the Library

WALTER KENDALL JEWETT, A. B., M. D., Librarian.

NELLIE JANE COMPTON, A. B., Assistant Librarian.

CLARA CRAIG, A. B., Reference Librarian.

MARIAN CINDERELLA BELL, A. B., B. L. S., Cataloger in the Library.

EDNA CLARA NOBLE, B. L., Library Assistant.

MABELLE BENTON BEATTIE, A. M., Library Assistant.

ADELAIDE C. ROOD, Library Assistant.

HARRIET WILSON, A. B., Library Assistant.

PEARLE BURR, Library Assistant.

ALTA M. KATES, Library Assistant.

JESSIE JUNE GLASS, A. B., Library Assistant.

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\*Deceased.

†Resigned.

**Of the Museum**

ERWIN HINCKLEY BARBOUR, Ph. D., Curator of the University Museum.

CARRIE ADELINE BARBOUR, B. Sc., Assistant Curator of the University Museum.

RAYMOND JOHN POOL, A. M., Curator of the Herbarium.

WILLIAM HARRISON LAMB, Assistant Curator of the Herbarium.

**Of the Gymnasium**

RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Director of the Men's Gymnasium.

INA ESTELLE GITTINGS, A. B., Director of the Women's Gymnasium.

EWALD ORTWIN STIEHM, A. B., Assistant Professor of Athletics.

**THE UNIVERSITY SENATE****Officers**

President, Samuel Avery, Ph. D., LL. D., Chancellor of the University.  
Secretary, James Stuart Dales, Secretary of the Board of Regents.

**Members**

Deans Bessey, Burnett, Davis, Fordyce, Hastings, Sherman, Wolcott, and Associate Dean Bridges.

Head Professors Alway, Barber, Barbour, Bruner, Caldwell, Chatburn, Fling, Fossler, Frye, Howard, Lees, Le Rossignol, Luckey, Smith, Stout, Taylor, Wolfe, and Acting Heads of Department Dales, Gain, Hrbkova, Persinger, Sponsler.

Professors Aikin, Alexander, Almy, Bridges, Bouton, Brownell, Candy, Chase, Clapp, Conant, Condra, Conklin, Dann, B. B. Davis, Emerson, Engberg, Findley, Fogg, Grummann, Guenther, Hinman, Hunter, Jonas, McClanahan, Maxey, Milroy, Montgomery, B. E. Moore, R. C. Moore, Morse, Owen, Powers, Poynter, Pugsley, Robbins, Schalek, Skinner, Somers, Stuff, Swezey, Towne, Tuttle, Virtue, Waite, Webster, Wilcox, Willard, Wilson.

The Registrar, Adviser to Women Ensign, Librarian Jewett, Inspector Reed, Commandant Yates, Directors Hayden, Lyman, McBrien.

**Standing Committees**

Accredited Schools and Admission to Freshman Standing in the Colleges—  
Professors Lees (chairman), Barber, Barbour, Bessey, Caldwell, Condra, Conklin, Dales, Davis, Fling, Fossler, Frye, Howard, Hunter, Le Rossignol, Luckey, Reed, Sherman, Skinner, Swezey, Wolcott.

Athletics—Professors Barber (chairman), Hunter, Jewett, Skinner, Wolfe, the Physical Director.

Calendar and Bulletins—The Chancellor (chairman), the Deans, the Registrar.

Delinquent Students—Professor Chatburn (chairman), the Adviser to Women, Professors Engberg (secretary), Frye, Conant, the chairmen of the inter-fraternity and inter-sorority councils.

Emergencies—The Chancellor (chairman), the Deans.

The Library—The Chancellor (chairman), the Deans, Professor Jewett (secretary).

Publication of University Studies—Professors Sherman (chairman), Bessey, Fling, Grumann, Jewett (editor).

Student Organizations and Social Functions—Professors Chatburn (chairman), Candy (auditor), the Adviser to Women, the chairmen of the inter-fraternity and inter-sorority councils.

Convocation Exercises—Professor Grumann (chairman), Mrs. Raymond, the Registrar.

University Extension Courses and Credits—Professors Davis, (chairman), Condra, Grumann, McBrien, Wolfe.

Student Publications—Professors Stout (chairman), Aylsworth, Buck, Pugsley, Reed (secretary).

Nominations—The Chancellor (chairman), Professors Barber, Bessey, Burnett, Howard, Lees.

Correlation of Courses—The Chancellor (chairman), and the chairmen of the course of study committees of the colleges.

## ALPHABETICAL LIST OF ALL OFFICERS OF ADMINISTRATION AND INSTRUCTION

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### Marks and Abbreviations

Figures in parentheses (as 1910-1911) indicate, respectively, year in which present rank was attained and year of first membership in a faculty of the University.

Letters in parentheses (as AS, E) indicate college faculty or faculties of which the person is a member.

#### FACULTIES

A=College of Agriculture  
AS=College of Arts and Sciences  
E=College of Engineering  
G=Graduate College

L=College of Law  
M=College of Medicine  
T=Teachers College

#### OFFICES

Adm.=Administration Hall, Campus  
Agr. H.=Agricultural Hall, Farm  
B=Brace Laboratory of Physics, Campus  
C=Chemistry Hall, Campus  
D=Dairy Hall, Farm  
E=Mech. Engineering Laboratories, Campus  
Elect.=Electrical Engineering Laboratories  
E. S.=Experiment Station Hall, Farm  
G=Grant Memorial Hall, Campus

H. E.=Home Economics Hall, Farm  
Hort. H.=Horticultural Hall, Farm  
L=Library Hall, Campus  
M=Mechanic Arts Hall, Campus  
Mach. H.=Machinery Hall, Farm  
Mus.=Museum Hall, Campus  
N=Nebraska Hall, Campus  
S=Soldiers' Memorial Hall, Campus  
U=University Hall, Campus

**Alkin, Joseph Melanchthon, M. D., Clinical Professor of Nervous Diseases, 468 Brandeis Building, Omaha (M).**

**Albin, Walter Leonard, M. D., Instructor in Pathology, (1911-1911), N 303, University Place, (AS, M).**

**Alexander, Hartley Burr, Ph. D., Professor of Philosophy (1908, 1908), L 110, 1736 Garfield street (AS, G).**

**Alexis, Joseph Emmanuel Alexander, A. M., Instructor in Swedish and Germanic Languages, 1420 Elm Street, (9110), U 108 (AS).**

**Almy, John Edwin, Ph. D., Professor of Experimental Physics (1909, 1900), B, 2300 A street (AS, G).**

**Alway, Frederick James, Ph. D., Head Professor of Agricultural Chemistry (1909, 1906), E. S., 517 East Fifteenth street, University Place (A, G).**

**Anderson, Edward Emil, B. Sc., Assistant Superintendent of Construction, Adm. 209, 2240 R street (Adm.).**

**Anderson, Selma S., A. B., Fellow in Greek, U 215, (AS).**

**Arnholz, Milton Frederick, A. B., B. Sc., Assistant in Anatomy, M 300, 341 North Thirty-third street, (M).**

**Avery, Samuel, Ph. D., LL. D., Chancellor and President of the University Senate (1909, 1901), Adm. 101, 2001 Washington street.**

**Aylsworth, Leon Emmons, A. M., Associate Professor of Political Science (1910, 1902), U 103, 2048 Vine street (AS, G).**

**Baer, Alva Aldus, Instructor in Woodwork, Department of Farm Mechanics (1907, 1907), Mech. H., 1729 Prospect street (A).**

**Barber, Bert, Assistant in Dairy Husbandry (1911, 1911), D, (A).**

**Barber, Grove Ettinger, A. M., Head Professor of Roman History and Literature (1906, 1882), U 205, 1320 L Street, (AS, T, G).**

**Barbour, Carrie Adeline, B. Sc., Assistant Curator of the University Museum, Mus., 1446 Q street (AS).**

- \*Barbour, Erwin Hinckley, Ph. D., Head Professor of Geology (1893, 1891), Curator of the University Museum, Mus., 1234 R street (AS).
- Barker, Franklin Davis, Ph. D., Associate Professor of Zoology (1909, 1903), N 302, 1771 South Twenty-Sixth street (AS, M, G).
- Barker, Percy Bonsfield, A. B., Assistant Professor of Agronomy (Soils) (1911, 1908), E. S., 3003 Starr street (A).
- Barns, Viola Florence, A. M., Fellow in American History, U 210, 435 North Twenty-Fifth street, (AS).
- Bates, Ruth Mary, A. B., Scholar in Botany, N 104, (AS).
- Baumgartner, Milton D., A. M., Adjunct Professor of German (1908, 1907), U 108, 1115 H street (AS).
- Beach, Allen Reed, Chief Clerk of the University Farm, Agr. H. 202, 3136 Holdrege street (Adm.).
- Beattie, Mabelle Benton, A. M., Library Assistant, M 202, 421 South Fifteenth Street (Adm.).
- Becker, Wesley Charles, Storekeeper in the department of Zoology, N 206, (AS).
- Beghtol, Jessie, A. B., Instructor in Physical Education, (1911, 1910) S 202, (AS).
- Bell, Marion Cinderella, A. B., B. L. S., Cataloger in the Library, L. 919 C Street (Adm.).
- Bengtson, Nels August, A. M., Assistant Professor of Geography and Economic Geology (1910, 1908), U 7, 1911 Euclid Ave. (AS, T, E, A).
- Bennett, Elizabeth Ruth, Ph. D., Instructor in Mathematics, 1129 F street (AS).
- Bessey, Charles Edwin, Ph. D., LL. D., Head Dean and Head Professor of Botany (1909, 1884), N 104, 1507 R street (AS, T, A, G).
- Bierman, Theodore H. Assistant in Political Economy, U 101, (AS).
- Bliss, Rodney Waldo, B. Sc., M. D., Instructor in Clinical Pathology and Internal Medicine, 410 Brandeis Theater Building, Omaha (M).
- Boardman, Leland James, A. B., Assistant in Physics, 557 North Sixteenth street, (AS).
- Borrowman, George, A. M., Adjunct Professor of Chemistry (1908, 1905), C, 947 South Thirteenth street (AS, E).
- Bouton, Rosa, A. M., Professor of Home Economics (1908, 1900), Home Economics Hall (A, T).
- †Boyd, Alfred, B. Sc., in E. E., Adjunct Professor of Civil Engineering (1909, 1907), (E).
- Brenke, William Charles, M. Sc., Ph. D., Associate Professor of Mathematics (1909, 1907), M 301½, 1250 South Twenty-first street (AS, E).
- Bridges, Willson Orton, M. D., Associate Dean of the College of Medicine and Professor of the Principles and Practice of Medicine and Clinical Medicine, 418 Brandeis Theater Building, Omaha (M).
- Bridgman, Judd Noble, M. S., Assistant Professor of Civil Engineering (1910, 1910), 1909 South Twenty-seventh street (E).
- Brock, Henrietta McElroy, Instructor in China Painting (1894, 1894), L 305, 620 South Tenth street (AS).
- Brownell, Herbert, B. Sc., Professor of Theory and Practice of Teaching the Physical Sciences (1910, 1910), 2627 P street, (T, AS).
- †Bruner, Lawrence, B. Sc., Head Professor of Entomology and Entomologist of the Experiment Station. (1894, 1888), N 303, 2314 South Seventeenth street (AS, A, G).
- Buck, Philo Melvin, Jr., A. M., Associate Professor of Rhetoric (1910, 1910), U 107, 2125 A street (AS).
- Bullock, Flora, A. M., Adjunct Professor of English in the School of Agriculture (1910, 1903), Agr. H. 109, Thirty-seventh and Y streets (A).
- Bunting, Albert Eggleton, Adjunct Professor of Practical Mechanics (1909, 1907), Engineering Shops, 1721 C street (E).
- Burnett, Edgar Albert, B. Sc., Dean of the College of Agriculture and Director of Experiment Stations (1901, 1889), Agr. H. 202, 3256 Holdredge street (A).
- Burr, Pearle, Library Assistant, 311 North Thirty-fourth street (Adm.).

\*Director of the State Geological Survey.

†Resigned.

‡Joint Director of a state bureau for the study of Plant Diseases and Destructive Insects in connection with the experiment station.

- Burr, William Wesley, B. Sc., Assistant in Soils and Crops at North Platte Experiment Sub-station (A).
- \*Caldwell, Howard Walter, A. M., Head Professor of American History (1892, 1883), U 210, 1919 E street (AS, G, T).
- Camp, Ray Herbert, Assistant in Dairy Husbandry, D, (A).
- Candy, Albert Luther, Ph. D., Professor of Pure Mathematics (1907, 1893), M 304, 1003 H street (AS, G).
- Chamberlain, May, A. M., Instructor in Germanic Languages and Literatures (1900, 1896), U 109, 2730 Q street (AS).
- Chase, Leon Wilson, B. Sc. in M. E., Professor of Agricultural Engineering (1908, 1904), Mach. H., 1245 North Thirty-third street (A, G).
- Chatburn, George Richard, B. C. E., A. M., C. E., Head Professor of Applied Mechanics and Machine Design (1909, 1894), M 309, 2850 T street (E, G).
- Cheuvront, Maud, Executive Clerk Registrar's Office, Adm. 103, 2740 T street (Adm).
- Chowins, Charles Edmund., M. E., Superintendent of Buildings, Grounds and Construction (1887, 1887), Adm. 208, 1802 Washington street (Adm.)
- Chowins, John Martin, Expert Mechanician, Department of Physics, B, 2820 T street (AS, E).
- Christie, Burton Whitford, B. Sc., M. D., Instructor in Pediatrics, 417 Barker Block, Omaha (M).
- Clapp, Raymond Gustavus, Ph. B., M. D., Professor of Physical Education and Director of Athletics (1902, 1902), G .641 South Thirteenth street (AS, T, G, M).
- †Clark, Edgar Harlan, A. B., LL. B., Purchasing Agent, Adm. 202 (Adm).
- Cloyd, Augustus Davis, M. D., Lecturer in Life Insurance Examinations, Woodmen Building, Omaha (M).
- Compton, Nellie Jane, A. B., Assistant Librarian, L, 1736 Cherry street (Adm).
- Conant, Ernest Bancroft, A. B., LL. B. Professor of Law (1907, 1907), U 308, 1345 A street (L).
- †Condra, George Evert, Ph. D., Professor of Geography and Economic Geology (1906, 1902), M 109, 1319 Q street (AS, A, E, T, G).
- Conklin, Clara, A. M., Professor of Romance Languages and Literatures (1904, 1892), U 301, University Woman's Building (AS, T, G).
- †Coons, G. Herbert, A. B., Adjunct Professor of Agricultural Botany (1909, 1909), (A).
- Coopersmith, Samuel, A. B., Fellow in Zoology, N 206, (AS).
- Cowan, James, M. M. E., Superintendent of Experiment Substation at Valentine (Adm).
- Craig, Clara Louisa, A. B., Reference Librarian, L, 421 South Twentieth-eighth street (Adm).
- Crocker, George R., B. Sc., Superintendent of the Teachers College Training School (1911, 1910), 2731 R street (T).
- Cutter, Irving Samuel, B. Sc., M. D., Instructor in Chemistry, (1911, 1911) C, 212 Richards Block (AS, M).
- Dales, Benton, Ph. D., Professor of Chemistry (1908, 1903) and in charge of Department of Chemistry, C, 2025 C street (AS, T, E, M, G).
- Dales, James Stuart, M. Ph., Secretary of the Board of Regents and of the University Senate, Adm. 102, 1743 A street (Adm.).
- Dann, William Francis, A. M., Professor of the History and Criticism of the Fine Arts (1907, 1894), U 202, 3037 R street (AS, G).
- Davis, Byron Bennett, A. B., M. D., Professor of Principles of Surgery and Clinical Surgery, 200 Bee Building, Omaha (M).
- Davis, Ellery Williams, Ph. D., Dean of the College of Arts and Sciences and Head Professor of Mathematics (1893, 1893,) M 301½, 1345 South Eighteenth street (AS, T, E, G).
- Davis, Helen L., Instructor in Home Economics, (1911, 1911), H. E. Hall, (A).
- Davis, Searl S., A. B., Assistant in Rhetoric, U 107, 2517 P street (AS).

\*Leave of absence, 1911-1912.

†Director of State Conservation and Soil Surveys.

‡Resigned.

- \*Davisson, Albert Eugene, A. B., Head Professor of Agricultural Education and Principal of the School of Agriculture (1908, 1896).
- Day, Elsie, A. B., Ph., G., Instructor in Pharmacognosy, N 3, 2030 Sumner street (AS, M).
- Dean, Charles Lee, B. Sc., in M. E., Assistant Professor of Mechanical Engineering (1909, 1902) M 211, 140 North Twenty-eighth street (E, G).
- DeLacy, George Lewis, LL. B., Instructor in Law (1910, 1909), U 310 a, 403 Funke Building, (L).
- †Denny, Grace Goldena, A. B., Instructor in Home Economics (1908, 1908), H. E., (A).
- Denny, Glaideth, A. B., Assistant in German and History, Agr. H. 204, 1726 Q street (A).
- Dunman, William Hill, Landscape Gardener, Hort. H., 3140 Dudley street (Adm).
- Dunn, Mabel, M. D., Consulting and Examining Physician for Women, (1911, 1911) G, 1238 O street (Adm.)
- Duppert, William Jacob, M. S. F., Adjunct Professor of Forestry, N 105 (A).
- Eaves, Lucile, M. S. C., Ph. D., Associate Professor of Practical Sociology (1908, 1908), U 103, 719 South Sixteenth street (AS, G).
- †Edmiston, Aaron Welch, M. D., Instructor in Bandaging and Surgical Dressing (M).
- †Emerson, Clarence, Ph. D., Instructor in Bacteriology and Pathology (M, AS).
- Emerson, Rollins Adams, B. Sc., Professor of Horticulture (1905, 1899), Hort. H., 1205 North Thirty-third street (A, AS).
- Engberg, Carl Christian, Ph. D., Professor of Applied Mathematics (1908, 1896), M 302, 330 North Thirty-second street (AS, E, G).
- England, Minnie Throop, Ph. D., Instructor in Political Economy (1909, 1909), U 101, University Place (AS).
- Ensign, Alice Baird, A. B., Adviser to Women (1909, 1909), Adm. 104, Walworth Cottage, R. R. No. 4 (Adm., AS, T, A).
- Evans, Harlan Alfred, Purchasing Agent, Adm. 202, 201 West Nineteenth street, University Place (Adm.).
- †Everett, Harry Harding, B. Sc., M. D., Instructor in Clinical Pathology and Diagnosis, M 300 (M).
- Fairchild, Nora May, M. D., Clinical Assistant in Gynecology, 826 Brandies Building, Omaha (M).
- Field, Georgia Baldwin, A. B., Assistant in Educational Theory and Practice, T, 1828 N street, (T).
- Field, Osmond Francis, Instructor in Physical Education, 511 North Sixteenth street, (1911 1911) G, (AS).
- †Filley, C. W., Scholar in Agronomy and Farm Management, E. S. (A).
- Findley, Palmer, B. S., M. D., Professor fo Didactic and Clinical Gynecology, 418 Brandeis Theatre Building, Omaha (M).
- Flensburg, Claude Copley, Lecturer on Advocacy, Funke Building, 1645 A street (L).
- Fling, Fred Morrow, Ph. D., Head Professor of European History (1905, 1891), L 308, 1304 B street (AS, T, G).
- Fogg, Miller Moore, A. M., Professor of Rhetoric (1905, 1901), U 107, 1627 H street (AS, G).
- Folger, Harriet, B. Sc., Associate Professor of Home Economics (1909, 1909), 1129 J street, (T).
- Foote, Paul D., A. B., Graduate Assistant in Physics, B, 2601 Q street, (AS).
- Forbes, William Pense, Assistant in Dairy Husbandry, D (A).
- Fordyce, Charles, Ph. D., Dean of the Teachers College and Head Professor of Educational Theory and Practice (1908, 1908), Adm. 104, 1921 C street (T, AS, G).
- Fossler, Laurence, A. M., Head Professor of Germanic Languages and Literatures (1894, 1889), U 108, 1547 South Seventeenth street (AS, T, G).
- Fossler, Mary Louise, A. M., Adjunct Professor of Chemistry (1908, 1898), C, 2434 Q street (AS, M).
- Frankforter, Clarence Jackson, A. M., Instructor in Chemistry and Custodian of Supplies (1909, 1909), C, 710 North Twenth-fourth street (AS).

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\*Deceased.

†Resigned.

## OFFICERS AND MEMBERS OF FACULTIES

21

- French, William Luther, B. Sc., Adjunct Professor of Dairy Husbandry (1909, 1909), D (A, T).  
Frye, Prosser Hall, A. B., Head Professor of Rhetoric (1909, 1896), U 107, 528 South Tenth street (AS, T, G).  
Gain, James Harrison, M. D. C., Professor of Animal Pathology, A 104, (1910, 1901), 3289 Orchard street (A).  
Gass, Sherlock Bronson, Ph. B., Assistant Professor of Rhetoric (1911, 1905), U 107, 1712 E street (AS).  
Gifford, Harold, B. S., M. D , Professor of Ophthalmology and Otology, 563 Brandeis Building, Omaha (M).  
Gittings, Ina Estelle, A. B., Adjunct Professor of Physical Education and Director of Women's Gymnasium (1911, 1907), G, 1645 R street (AS, T).  
Glass, Jessie June, A. B., Library Assistant, L, 3141 Holdredge street (Adm.).  
Goetz, James Samuel, M. D., Instructor in Internal Medicine, 324 Bee Building, Omaha (M).  
Graham, Mary Catherine, A. B., Assistant Instructor in Chemistry (1909, 1909), C, 1522 S, street (AS).  
Gramlich, Howard John, Assistant in Soil Agronomy, E. S., (A).  
Green, John, Engineer of Heating and Power Plant, 327 North Eleventh street (Adm.).  
Greer, Vancil Kelso, LL. B., Assistant in Purchasing Agent's office, A 202, 1035 J street (Adm.)  
Grennan, John, Instructor in Forge and Foundry Work, (1911, 1911), (E).  
Griffith, Donee, Assistant in Teachers College High School, T, (T).  
Grimm, Edith Anita, A. B., Scholar in Latin, U 205, 1626 B street (AS).  
Grummann, Paul Henry, A. M., Professor of Modern German Literature (1907, 1900), U 111, 1930 Washington street (AS, T, G).  
Guenther, August Ernest, Ph. D., Professor of Physiology (1908, 1905), N 5, (AS, M, G).  
\*Haecker, Archibald Louis, B. Sc. A., Head Professor of Dairy Husbandry (1908, 1901), D, (A).  
Hagenow, August, Instructor of the Band (1903, 1903), G, 1327 H street (AS).  
Hahne, Ernest Herman, Assistant in Political Economy, U 101, (AS).  
Hannah, Margaret Louise, A. B., Fellow in Botany, N 104, 2061 South Sixteenth street (AS).  
Hansen, Niels Peter, Ph. G., Lecturer in Pharmacy, N 7, 1933 Garfield street (AS).  
Harper, Ella Bradford, A. B., Instructor in Home Economics (1908, 1908), H. E., 928 South Tenth street (A).  
\*Harrison, Philip John, A. B., Registrar and University Publisher, Adm. 103, 1650 South Twentieth street (Adm.)  
Hastings, William Granger, A. B., Dean of the College of Law (1909, 1904), U 310, 301 North Thirty-fifth street (L).  
Hayden, Sara Shewell, Director of School of Fine Arts (1909, 1899), L 305, 1339 South Nineteenth street (AS).  
\*Heck, Charles M., A. M., Assistant Professor of Physics (1909, 1905), B, (AS).  
Hedges, Mabel Maude, A. B., Assistant Instructor in Home Economics (1910, 1910), 2502 Q street (A).  
Hendricks, Bernard Clifford, Assistant in Chemistry, C, (AS).  
Heppner, Amanda Henrietta, A. M., Assistant Professor of Germanic Languages and Literatures (1909, 1894), U 110, 944 Washington street (AS).  
Hill, Cora Belle, A. B., Fellow in Mathematics in Teachers College Training School, Temple, 1530 B street, (T).  
Hilton, David Clark, A. M., M. D., Instructor in Anatomy, 2832 O street (M).  
Hinman, Edgar Lenderson, Ph. D., Professor of Logic and Metaphysics (1906, 1896), L 110, 2510 T street (AS, G).  
Hollister, Robert Russell, M. D., Instructor in Surgery and Gynecology, 514 Brandeis Theater Building, Omaha, (M).  
Hollister, Vernon Leo, B. Sc., Adjunct Professor of Electrical Engineering (1908, 1907), Elect. Lab., 1728 Cherry street (E).

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\*Resigned.

## THE UNIVERSITY OF NEBRASKA

- Holmes, Helma Lou, A. B., Fellow in Mathematics, M 301½ (AS).
- Hopt, Erwin, B. Sc., Assistant Professor of Agronomy (Field Crops) (1911, 1908), E. S., 3015 Orchard street (A).
- Hosford, Frederick Addison, Electrician, Adm. 207, 721 North Twenty-fourth street (Adm.).
- Howard, George Elliott, Ph. D., Head Professor of Political Science and Sociology (1904 1904), U 103, 1910 E street (AS, G).
- Howard, Robert Francis, B. Sc., in Agr., Assistant Professor of Horticulture and Assistant Horticulturist in Experiment Station, (1911, 1908), 1544 Q street (A).
- Howell, Harriet Alice, A. M., Adjunct Professor of Elocution (1905, 1900), U 106, The Oslo (AS, T).
- Hrbkova, Sarka, A. B., Adjunct Professor of Slavonic Languages, Acting Head of the Department of Slavonic Languages, (1910, 1907), U 108, 319 South Twenty-sixth street (AS)..
- Hull, Charles Aaron, M. D., Instructor in Surgery, 200 Bee Building, Omaha (M).
- Hunt, Alfred Onias, D. D. S., Lecturer in Dental Surgery, 420 Bee Building Omaha (M).
- Hunter, Alice Cushman, Ph. D., Adjunct Professor of Roman History and Literature (1908, 1904), U 205, 1448 R street (AS).
- Hunter, Fred Maurice, A. B., Professor of Secondary Agricultural Education and Principal of the School of Agriculture (1911, 1911) Agr. Hall 207, (A, T).
- Jefferson, Alfred, M. D., Instructor in Therapeutics and Gynecology, 440 Brandeis Building Omaha (M).
- Jewett, Walter Kendall, A. B., M. D., Librarian, L, (1906, 1906), 1634 D street (Adm).
- Johnson, Earl George, A. B., Assistant in Physiology, N 5, 307 North Twenty-fourth street (AS, M).
- Johnson, Henry T., B. S., Instructor in Mathematics (1907, 1907), M 301½, 1216 H street, (AS).
- Johnstone, Harvey Melanchthon, A. M., Fellow in Philosophy, L 110, (AS).
- Jonas, August Frederick, M. D., Professor of Practice of Surgery and Clinical Surgery, 454 Brandeis Building, Omaha (M).
- Jones, Ada M., Fellow in Romance Languages, U 301, (AS).
- Jones, Guernsey, Ph. D., Associate Professor of American History (1909, 1897) U 210, 1418 L street (AS, G).
- Jussel, Martin Simon, B. Sc., in Agr., Assistant in Experimental Agronomy, Experiment Station, 3204 Holdredge street.
- Kates, Alta M., Library Assistant, 137 South Twentieth-sixth street, (Adm).
- Kennedy, Charles Rex, M. D., Instructor in Surgery, 460 Brandeis Building, Omaha (M).
- \*Keyser, Val, B. Sc., Superintendent of Farmers' Institutes, Agr. H., (1909, 1906), 630 North Thirtieth street (A).
- Kiesslbach, Theodore Alexander, A. B., Adjunct Professor in Experimental Agronomy, 3157 R street, (A).
- Klick, John Joseph, M. D., Assistant in Dermatology, 514 Brandeis Theatre Building, Omaha (M).
- Knorr, Fritz, B. Sc., Superintendent of Experiment Substation at Scottsbluff (Adm).
- Korsmeyer, Julia Marie, A. M., Assistant Professor of Romance Languages and Literatures (1911, 1901), U 302 1920 C street (AS, G).
- Krueger, Johanna Pauline Dorothea, Assistant in German, N 108, 540 D street, (AS).
- Krueger, John Frederick, A. M., Fellow in Political Science and Sociology, U 103, 540 D street, (AS).
- Lally, Eleanor Mary, Fellow in Education, U 209, (T).
- Lane, Wallace Rutherford, LL. B., Lecturer on Patent, Copyright, and Trade Mark Law, Des Moines, Ia. (L).
- Lapp, Dale, A. B., Scholar in Botany, N 104, (AS.)
- Laughlin, Joseph Wilson, B. Sc., Assistant in Anatomy, M 300, (M).

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\*Resigned.

## OFFICERS AND MEMBERS OF FACULTIES

23

- Ledwith, John James, B. Sc., LL. B., Adjunct Professor of Law (1911, 1903), U 310 A, 1230 South Sixteenth street (L).
- Lee, Charles Boss, B. Sc., Adjunct Professor of Animal Husbandry, (1911, 1910), Agr. Hall 103, (A).
- Lees, James Thomas, Ph. D., Head Professor of Greek History and Literature (1891, 1889), U 215, 645 North Thirtieth street (AS, G, T).
- Lehnhoff, Henry John, A. B., M. D., Instructor in Surgery, M 300, 1945 E street (M).
- Leland, Rev. Dean R., A. M., Chaplain of University Cadets, 204 Armory.
- Lemere, Henry Bassett, M. D., Instructor in Ophthalmology and Otology, 400 Brandeis Theatre Building, Omaha (M).
- Le Rossignol, George Edward, Ph. D., Head Professor of Political Economy and Commerce, (1911, 1911-1908), U 101 (AS, G).
- Liebers, Otto, Assistant in Dairy Husbandry, D, (A).
- Link, George Konrad Karl, S. B., Adjunct Professor of Agricultural Botany (1911, 1911), Agr. Hall 307, (A).
- Logan, Leo Joseph, Clerk, Secretary's Office, Adm. 102, 930 A street (Adm).
- Loughridge, Julia Emmeline, A. B., Adjunct Professor of Mathematics and Assistant Principal of the School of Agriculture, Agr. H. 204, (1909, 1899), Home Economics Building (A).
- Loveland, George Andrew, A. M., LL. B., Associate Professor of Meteorology (1906, 1894) and Observer United States Weather Bureau, B, 1130 South Twentieth street (AS, G).
- Luckey, Bertha Musson, A. B., Scholar in Philosophy, L 110, 1439 R street, (AS).
- Luckey, George Washington Andrew, Ph. D., Head Professor of Education (1896, 1895), U 209, 1439 R street (AS, T, G).
- Luckey, George Paul, A. B., Assistant in Physics, 1439 R street (AS).
- Ludington, Paul Hagans, A. B., M. D., Instructor of Medicine, 815 Brandeis Building, Omaha (M).
- Lyman, Rufus Ashley, A. M., M. D., Professor of Pharmacodynamics and Director of the School of Pharmacy, (1908, 1902,) N 7, 1641 South Twenty-first street (M, Pharmacy).
- McBrien, Jasper Leonidas, A. M., Director of University Extension (1908, 1908), Adm. 203, 716 South Eighteenth street (AS, T).
- McClanahan, Harry Monroe, M. D., Professor of Pediatrics, 468 Brandeis Building, Omaha (M).
- McComb, Harold Edgar, A. M., Instructor in Physics for 1910-1911, B, (AS).
- McGahey, Florence Irwin, A. B., Assistant in Registrar's Office, Adm. 103, 1200 H street (Adm).
- McKelvie, Samuel, Lecturer in Swine Judging (1909, 1909), Agr. H. 103, The Nebraska Farmer Co. (A).
- McPhee, Marguerite Cameron, A. M., Instructor in Rhetoric (1908, 1905), U 107, 1618 L street (AS).
- Manning, Ernest Tibbetts, M. D., Instructor in Therapeutics, 501 Paxton Block, Omaha (M).
- Marshall, William Warner, Executive Clerk of Nebraska Experiment Station, Agr. H. 202, 229 North Eleventh street (Adm).
- Maxey, Edwin, D. C. L., Ph. M., Professor of Public Law and Diplomacy (1906, 1906), U 308, 1140 F street (L, AS, G).
- Mayland, Dorothy, A. B., Fellow in Germanics and in Educational Theory and Practice, 1501 F street (AS, T).
- Medlar, Edgar Matthias, B. Sc., Scholar in Zoology, 1634 Q street (AS).
- Menlove, Lulu, Head of the Stenographic Bureau, Adm. 205, 605 South Tenth street (Adm).
- Merrill, Bessie Evelyn, A. B., Instructor in Home Economics for 1910-1911, H. E. Hall, (A).
- Metcalf, Mabel Clare, Assistant in Teachers College High School, T, (T).
- Mickey, Clark Edwin, B. Sc. in M. E., B. Sc. in C. E., Adjunct Professor of Applied Mechanics (1911, 1908), M 102, 1337 South Eleventh street (E).
- Milroy, William Forsyth, M. D., Professor of Clinical Medicine and Physical Diagnosis 454 Brandeis Theatre Building, Omaha (M).
- Mitchell, Claude William, A. B., Scholar in Zoology, N 206, (AS).
- Mogridge, George, M. D., Lecturer in Arrested Development, Glenwood, Iowa (M).

- Montgomery, Edward Gerrard, A. M., Professor of Experimental Agronomy (1909, 1906),  
E. S., 3270 Starr street (A, G).
- Moore, Burton Evans, Ph. D., Professor of Physics (1907, 1896), B, 1900 Euclid avenue  
(AS, E, G).
- Moore, Richard Channing, M. D., Professor of Diseases of the Mind, 454 Brandeis Theater  
Building, Omaha (M).
- Moore, John Clyde, Clinical Assistant in Medicine, 429 Brandeis Building, Omaha (M).
- Morison, Charles Campbell, A. B., M. D., Instructor in Surgery (1910, 1910), 1701 Locust  
street, Omaha (M).
- Morse, George Hart, B. E. E., Professor of Electrical Engineering (1903, 1898), M 208, 2447  
W street (E).
- Moseley, Thomas Wesley, Assistant in Dairy Husbandry, D, (A).
- Needham, Daisy Jeanette, A. M., Instructor in European History (1909, 1907), L 308, 863  
North Twenty-sixth street (AS).
- Nesbitt, Orpha, B. Sc., Instructor in Home Economics (1909, 1909), H. E., 1129 J street, (A).
- Newmann, Minnie May, A. B., Instructor in English in the School of Agriculture (1909, 1909)  
(A).
- Noble, Edna Clara, B. L., Library Assistant, Agr. H., University Farm (Adm).
- Olmstead, Lewis Bertie, B. Sc., Assistant in Physics, B 301, 2301 S street (AS).
- Ord, Maude Rennie, Secretary to the Chancellor, Adm. 101 (Adm).
- Orr, Hiram Winnett, M. D., Assistant Professor of the History of Medicine, M 300, (1909,  
1905), 211 Richards Block (M).
- Owen, Frank Styles, M. D., Professor of Laryngology and Rhinology, 471 Brandeis Building,  
Omaha (M).
- Packard, George Byron, Jr., Assistant in Dairy Husbandry, D, (A).
- Page, Ernest Clifford, Ph. M., LL. B., Lecturer in Medical Jurisprudence, 815 New Omaha  
National Bank Building, Omaha (M).
- Patton, James McDowell, A. M., M. D., Instructor in Ophthalmology and Otology (1909,  
1909), 563 Brandeis Building, Omaha (M).
- Payne, Walter Scott, Instructor in Foundry and Machine Shops (1901, 1901), M 107, University  
Place (E).
- \*Pearson, Clarence Adolphus, Instructor in Forge and Foundry Work (1907, 1907), Engineering  
Shops, (E).
- Peiterson, Arne Kristopher, Assistant in Botany, N 104, (AS).
- Perin, Senator Willis, Superintendent of the University Farm, Agr. H., University Farm (A).
- Persinger, Clark Edmund, A. M., Associate Professor of American History (1909, 1901), U  
210, 1844 Harwood street (AS, T, E, G).
- Perusse, Francis Joseph, Ph. C., Assistant Professor of Pharmacology (1911, 1908), N 7, 809  
North Twenty-first street (M, AS).
- Peterson, Alfred Olaf, M. D., Instructor in Internal Medicine, 203 Range Building,  
Omaha (M)
- Petit, Allison, Scholar in Astronomy, Obs., (A).
- Pfeiffer, Laura Belle, A. M., Adjunct Professor of European History (1906, 1903), L 308,  
The Orlo (AS).
- Phelps, Sarah Louise, A. B., Assistant in German, U 108, (AS).
- \*Philbrick, Inez, M. D., Consulting Physician to Women (Adm).
- †Philips, Frank J., A. B., M. S. F., Professor of Forestry (1907, 1907), (A, AS).
- Pilsbury, Laurence Bell, A. B., M. D., Adjunct Professor of Bacteriology and Pathology, N  
302, (1909, 1905), 1044 H street (AS, M).
- Pipal, Francis John, A. B., Fellow in Botany, N 104, (AS).
- Piper, Jennie Louise, A. B., Fellow in American History and Assistant in American History  
in the Teachers College Training School, U 210, 1731 D street (AS, T).
- Pollard, Charles Whitney, A. B., M. D., Adjunct Professor of Obstetrics, 446 Brandeis Build-  
ing, Omaha (M).

\*Resigned.

†Deceased.

- Pool, Raymond John, A. M., Associate Professor of Botany, Curator of the Herbarium (1911-1907), N 103, 1451 Q street (AS).
- Pool, Venus Worrell, A. M., Assistant in Agricultural Botany, Experiment Station, 3204 Starr Street (A).
- Pound, Louise, Ph. D., Associate Professor of English Language and Literature (1908, 1894), L 301, 1632 L street (AS, G).
- Power, Walter Robert, Assistant in Teachers College High School, T, 226 North Twenty-sixth street, (T).
- Powers, Joseph Horace, Ph. D., Professor of General and Experimental Zoology (1910, 1903), N 208, 3150 R street (AS, G, M).
- Poynter, Charles William McCorkle, B. Sc., M. D., Professor of Anatomy and in charge of Department of Anatomy, M 300 (1910, 1905), 1749 Washington street (M).
- Puffer, Lewis Morgan, Ph. B., Assistant in Mathematics in the School of Agriculture (1911, 1911), 2931 S street (A).
- Pugsley, Charles William, B. Sc., Professor of Agronomy and Farm Management, Soil Agronomist of the Experiment Station, (1910, 1908), 3620 Starr street (A)
- Putnam, John Jacob, A. M., Instructor in Bacteriology and Pathology, N 303, 1029 R street (M)
- Rail, Ellis, B. Sc. A., Assistant Professor of Animal Husbandry (1910, 1908), Agr. H. 104 Bushnell Guild House (A).
- \*Ramsey, William Hull, M. D., Instructor in Surgery (M).
- Rasmussen Jesse Ephraim, B. Sc. in M. E., Assistant Professor of Applied Mechanics and Machine Design (1911, 1907) M 309, 435 South Eighteenth street (E).
- Raymond, Carrie Belle, Director of Music (1908, 1894), U 106, 1414 L street (AS).
- Reed, Albert Alison, A. B., Inspector of Accredited Schools and Professor of Secondary Education (1909, 1908), Adm. 203, 2741 Randolph street (T).
- Reese, Elizabeth Irene, A. M., Instructor in Romance Languages and Literatures (1907, 1907), U 301, University Woman's Building (AS).
- Resler, John Clarence, B. Sc., Assistant in Physics, B (AS).
- \*Richards, Charles Russ, M. E., M. M. E., Dean of the College of Engineering and Head Professor of Mechanical Engineering and Practical Mechanics (1909, 1891), (E, T, G).
- Robbins, Charles Augustus, Ph. M., LL. B., Professor of Law (1909, 1909), U 310a, Richards Block (L).
- Rood, Adelaide C., Assistant in Library, 856 North Twenty-fifth street (Adm).
- Rowe, Edward Winfield, B. Sc., M. D., Instructor in Materia Medica, 301 Funke Building (M).
- Runge, Lulu L., A. M., Instructor in Mathematics (1909, 1909), M 301½, 1432 R street (AS).
- Rutledge, Edward Markwood, A. B., Assistant Registrar, Adm. 103, 2344 Dudley street (Adm).
- Sanford, Frederick Warren, A. B., Assistant Professor of Roman History and Literature (1906, 1906), U 203, 1728 South Twenty-sixth street (AS, G).
- Schalek, Alfred, A. M., M. D., Professor of Dermatology and Genito-Urinary Diseases, 514 Brandeis Theater Building, Omaha (M).
- Schrag, Andrew D., Ph. D., Assistant Professor of German (1910, 1908), U 108, 1230 L street (AS).
- Schramm, Eck Frank, M. A., Fellow in Geology, 310 South Fifteenth street (AS).
- Scipio, Lynn A., A. B., B. Sc., Assistant Professor of Mechanical Engineering (1911, 1908), 1604 Elm street (E).
- Scott, Robert D., A. M., Instructor in English Language and Literature, (1911, 1911), L 301, 334 South Thirteenth street (AS).
- Shedd, Claude Kedzie, B. Sc., Adjunct Professor of Agricultural Engineering (1909, 1909), (A, E).
- Sheldon, Addison Erwin, A. M., Lecturer in Political Science (1909, 1908), 1319 South Twenty-third street (AS).
- Sherman, Lucius Adelno, Ph.D., LL. D., Dean of the Graduate College and Head Professor of English Language and Literature (1887, 1882), L 301, 1234 J street, (AS, T, G).

\*Resigned.

## THE UNIVERSITY OF NEBRASKA

- Sjogren, Oscar Warner, Instructor in Forge Work at the Farm (1909, 1909) 3227 Holdredge street (A).
- Skinner, Clarence Aurelius, Ph. D., Professor of Physics (1906, 1899), B 206, 1602 Poplar street (AS, E, G).
- Slaymaker, Philip K., M. E., Associate Professor of Applied Mechanics and Machine Design (1911, 1907), M 309, 425 South Twenty-sixth street (E, G).
- Smith, Arthur Lawrence, Assistant in Anatomy, M 300 (M).
- Smith, Howard Remus, B. Sc., Head Professor of Animal Husbandry (1907, 1901), Agr. H. 103, 716 South Seventeenth street (A).
- Snyder, William Patton, A. B., M. S., Superintendent of North Platte Experimental Substation, North Platte (Adm.).
- Somers, Andrew Bartholomew, M. D., Professor of Obstetrics, 446 Brandeis Building, Omaha (M).
- Spencer, Bertram John, Demonstrator and Teacher of Construction in Physics, B, 1425 North Twenty-fourth street (AS).
- Sponsler, Olenus Lee, A. B., Associate Professor of Forestry, in charge of the department (1911, 1910), 2815 R street (A, AS).
- Steenburg, Donald Benjamin, B. Sc., Assistant in Anatomy, M 300 (M).
- Stephens, George Asbury, Ph. D., Adjunct Professor of Political Economy (1910, 1909), U 101, 315 North Twenty-ninth street (AS).
- Stetler, Carrie E., A. B., Fellow in American History, U 210, 1642 South Twenty-second street (AS).
- Stevens, James Franklin, A. M., M. D., Adjunct Professor of Materia Medica, 304 Funke Building (M).
- Stiehm, Ewald Ortwin, A. B., Assistant Professor of Athletics (1911, 1911), G (AS).
- Stokes, Arthur Charles, B.S., M. D., Associate Professor of Genito-Urinary Surgery and Surgical Anatomy, 503 Brandeis Building, Omaha (M).
- Stout, Oscar Van Pelt, B. C. E., C. E., Head Professor of Civil Engineering (1898, 1891), M 205, 1735 Euclid avenue (E, G).
- Stuff, Frederick Ames, A. M., Professor of English Language and Literature (1911, 1902), L 301, 434 North Twentieth-eighth street (AS, T, G).
- Sturdevant, Lazelle Brantley, A. M., M. D., Assistant Professor of Animal Pathology (1908, 1906), Veterinary Hall, 2757 Holdrege street (A).
- Swenk, Myron Harmon, A. M., Associate Professor of Entomology (1911, 1908), and Assistant State Entomologist, N 303, 3028 Starr street (A, AS).
- Swezey, Emma J., A. B., Fellow in Romance Languages, 2600 R street (AS)
- Swezey, Goodwin DeLoss, A. M., Professor of Astronomy (1896, 1894), Observatory, 2600 R street (AS, G).
- Syford, Constance Miriam, A. B., Fellow in English Language and Literature, L 301, 700 North Sixteenth street (AS).
- Tate, John Torrence, B. Sc., Assistant in Physics, B, 557 North Sixteenth street (AS).
- Taylor, William George Langworthy, A. B., LL. B., Professor Emeritus of Political Economy and Commerce (1911, 1893), (AS, G),
- Thornburg, Hazel Syrena, Assistant in Purchasing Agent's Office, 1208 S street (Adm.).
- Tibbets, Addison Seabury, B. C. E., Lecturer on Professional Ethics, Richards Block (L).
- Tibbets, Anna Mary, A. M., Principal of the Teachers College High School, Temple, 529 South Fourteenth street (T).
- Towne, Lockwood J., Ph. B., B. S. in C. E., Assistant Professor of Civil Engineering, (1911, 1911), M 205, (E).
- Towne, Solon Rodney, A. M., M. D., Professor of Hygiene and State Medicine, 446 Brandeis Building, Omaha (M).
- Truelsen, Thomas, M. D., Instructor in Physical Diagnosis and Clinical Assistant in Medicine, 587 Brandeis Building, Omaha (M).
- Trumbull, Robert Samuel, A. M., Adjunct Professor of Agricultural Chemistry, E. S. (1910, 1908), 2924 Clinton street (A).
- Tuckerman, Louis Bryant, Jr., A. B., Assistant Professor of Physics (1909, 1906), B (E, G).
- Tuttle, Samuel Johnson, A. M., LL. B., Professor of Law (1909, 1909), Burr Block (L).

- Vail, Nellie Antoinette, A. B., Scholar in Botany, N 104, (AS).
- Valgren, Victor Nelson, A. B., Instructor in Political Economy, U 101, 2630 R street (AS).
- Vennum, Mrs. Vada Clegg, Assistant Registrar School of Agriculture and Assistant Secretary to Faculty of College of Agriculture, 729 South Twentieth-eighth street (Adm.).
- Virtue, George Olien, Ph. D., Professor of Political Economy and Commerce (1909, 1909), U 101 (AS).
- Vollbehr, Margaret H., Stenographer in Teachers Bureau, Adm. 203, 320 South Fifteenth street (Adm.).
- Vore, Juliet Mitchell, Assistant in Registrar's Office, Adm. 103, 601 South Twenty-ninth street (Adm.).
- Voss, Adolph Max, A. B., Assistant Inspector of Accredited Schools, Adm. 203, 2525 Vine street (Adm.).
- Votaw, William Ward, Assistant Superintendent in charge of Grounds, Buildings and Janitors, Adm. 206, 3044 Q street (Adm.).
- Waite, Herbert Harold, A. M., M. D., Professor of Bacteriology and Pathology (1907, 1903), N 303, 2144 B street (AS, M, G).
- Walker, Elda Rema, Ph. D., Assistant Professor of Botany (1910, 1906) and in charge of Botanical Library, N 103, 331 North Eleventh street (AS).
- Walker, George Heman, M. D., Adjunct Professor of Anatomy (1910, 1909), M 300, 203 Ganter Building (M, AS).
- Walker, Leva Belle, A. M., Adjunct Professor of Plant Pathology (1911, 1907) and in charge of Botanical Storeroom, N 108, 331 North Eleventh street (AS).
- \*Wallace, Charles William, Ph. D., Associate Professor of English Language and Literature (1908, 1901), L 301 (AS, G).
- †Watson, Robert Hart, A. B., Supervisor of Teachers College Training School, Temple (T).
- Webster, Edith Leona, A. B., Assistant in Geology, 530 North Twelfth street (AS).
- Webster, Hutton, Ph. D., Professor of Social Anthropology (1907, 1907), U 103, 1504 A street (AS, G).
- Webster, Richard Orin, B. Sc., Assistant in Chemistry, C, (AS).
- Wekesser, Henry Peter, M. D., Demonstrator in Anatomy, M 300, 904 E street (M, AS).
- Welch, J. Stanley, B. Sc., M. D., Instructor in Physical Diagnosis (1910, 1910), 301 Funke Building, (M).
- Wells, Clifford Webb, Ph. B., Scholar in Histology and Embryology, N 204, 1721 M street (AS).
- Westermann, Max, Assistant Secretary of the Board of Regents, Adm. 102, 417 South Fourteenth street (Adm.).
- Westgate, Vernon Vilas, A. M., Assistant Professor of Horticulture (1910, 1908), Hort. H., 1431 R street (A).
- Wherry, William Penaluna, M. D., Instructor in Laryngology and Rhinology, 471 Brandeis Building, Omaha (M).
- Wickland, Arthur Julius, Assistant in Teachers College High School, T (T).
- †Wilcox, Edwin Mead, Ph. D., Professor of Agricultural Botany and Botanist of the Experiment Station. (1908, 1908), Agr. H. 307, 3261 R street (A, G).
- Wilhelmsen, Emma, A. B., Fellow in Education, U 209, University Place (T).
- Willard, William Albert, Ph. D., Professor of Histology and Embryology (1909, 1902), N 204, 826 South Eighteenth street (AS, M, G).
- Williams, Terry Arthur, Clerk in Secretary's Office, Adm. 102, 3205 Vine street (Adm.).
- Willis, Eunice, Assistant in Stenographic Bureau, A 205, 2228 S street (Adm.).
- Wilson, Ervin Fillmore, B. Sc., Assistant Instructor in Chemistry (1911, 1911), C, 1449 S street (AS).
- Wilson, Harriet, A. B., Library Assistant, College of Law Library, 1410 Q street (Adm.) (L).

\*Leave of Absence.

†Resigned.

‡Joint Director of a state bureau for the study of Plant Diseases and Destructive Insects in connection with the experiment station.

- Wilson, Henry H., A. M., LL. M., Professor of Law (1900, 1891), U 308, 1339 South Nineteenth street (L).
- Wolcott, Robert Henry, A. M., M. D., Acting Dean of College of Medicine and Head Professor of Zoology (1909, 1894), N 206, 2100 B street (AS, M, T, G).
- Wolfe, Harry Kirke, Ph. D., Head Professor of Philosophy (1909, 1905), U 209, 1727 J street (AS, G, T).
- Wolgamot, Winifred Olta, A. B., Fellow in Education, U 209 (T).
- \*Wolvington, William Thomas, Storekeeper in the Department of Zoology, N 206 (AS).
- Yates, Halsey Edward, Captain of Inf., U. S. A., Professor of Military Science and Tactics (1909, 1909), 204 Armory, 633 South Seventeenth street (AS, A, E).
- Zimmer, Mary Virginia, A. B., Instructor in Mathematics and Physics in the School of Agriculture, Agr. H. 102, Forth-second and Holdrege streets (A, AS).

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\*Resigned.

# **Addenda**

(28a)

The Board of Regents, at its regular June meeting, made the following appointments with reference to officers of administration and instruction not noted on other pages of this catalog:

#### OFFICERS OF ADMINISTRATION AND INSTRUCTION

##### Administration

FLORENCE IRWIN McGAHEY, A.B., Assistant Registrar.

##### Instruction

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology, leave of absence for one year.

WINIFRED FLORENCE HYDE, Ph. D., Instructor in Philosophy.

ECK FRANK SCHRAMM, A. M., Instructor in Geology.

SEARL DAVIS, A. B., Instructor in Rhetoric.

EMMA BACH, A. B., Assistant in Germanics.

CHARLES EMILE BENSON, A. B., Assistant in Philosophy.

ALLISON HARRISON DUGDALE, B. Sc., Assistant in Physiology.

OLIVER HOLMES GISH, B. Sc., Assistant in Physics.

SAMUEL M. KINNEY, Assistant in Physics.

ARTHUR LAWRENCE SMITH, Assistant in Physiology.

OTTO WIESE, B. S., Assistant in Chemistry.

EMMA NATHALIA ANDERSEN, A. B., Fellow in Botany.

RUTH MARY BATES, A. B., Fellow in Botany.

MARY CRAWFORD, A. B., Fellow in English Language and Literature.

MAYME DWORAK, A. B., Fellow in Botany.

EUGENE SCHOFIELD HEATH, A. B., Fellow in Botany.

VIRGINIA SHROPSHIRE HEATH, A. B., Fellow in English Language and Literature.

RAYMOND HENDERSON KENDRICK, B. Sc., Fellow in American History.

JESSIE EUGENIA McCALLUM, B. Sc., Fellow in Chemistry.

BERTHA E. THOMPSON, Fellow in Botany.

CLIFFORD WEBB WELLS, Ph. B., Fellow in Histology and Embryology.

EVANS ALVAH WORTHLEY, A. B., Fellow in Political Science and Sociology.

CHARLES DUDLEY BOHANNAN, A. B., Scholar in American History and Supervisor in the Teachers College High School.

ALFRED CRAGO, A. B., Scholar in Education.

MAUDE HAZEL GAECKLER, A. B., Scholar in Greek.

ANNIE HAWES, B. L., Scholar in Political Science and Sociology.

F. A. HAYS, B. Sc., Scholar in Animal Husbandry.

BERTHA NATHALIA KRAMER, B. Sc., Scholar in Botany.

MABEL CLARE METCALF, A.B., Scholar in Botany and in Educational Theory and Practice.

ERICH VON NUSBAUM, A. B., Scholar in Political Science and Sociology.

ARNE KRISTOPHER PEITERSON, A. B., Scholar in Botany.

HORACE JAMES YOUNG, Scholar in Agronomy.

By approved action of the University Senate on June 2, 1911, the following was adopted:

1. After September 1, 1912, twenty-eight points shall be the minimum requirement for conditional admission to the Colleges of Arts and Sciences, Engineering, and Agriculture, in the University.

2. There shall be maintained a list of Junior Accredited Schools, on the basis of three years of secondary school work. The graduates of these schools may receive conditional admission to the University upon the completion of sufficient additional work in an accredited school to secure the minimum of twenty-eight points.

By action of the faculty of the College of Arts and Sciences on June 5, 1911, the following was approved to become effective September 1, 1911:

#### FRESHMAN PROGRAM\*

	1st Semester Hours	2d Semester Hours
I. Rhetoric 1, 2.....	2	2
Military Science (Men) or Physical Training (Women).....	1	1
II. Ancient Languages.....	5	5
Modern Languages.....	5	5
Mathematics †.....	5	5
III. Botany.....	3	3
Chemistry .....	2 or 3	2 or 3
Physics.....	3	3
Zoology ‡.....	3	3
IV. European History 1, 2 .....	3	3
American History 1, 2 .....	3	3
English Literature, 1, 2 .....	3	3
Political Science 1, 2.....	2	2

Of the above the student is required to

First: Take I.

Second: Take any two of II.

Third: Take any one of III.

\*Committee of Advisers appointed for freshmen in the College of Arts and Sciences: Professors Fling, Frye, Lees, Skinner, Wolfe.

†For Mathematics (II) may be substituted one of III, other than a subject already taken, and one of IV.

‡Students fitting themselves for professional work in Entomology may substitute Entomology 1 and 2, taking Zoology 1 and 2 later.

**GRADUATION REQUIREMENTS**

Each Sophomore shall take at least one subject (other than Rhetoric and Military Science or Physical Education) continued from his freshman year.

Each candidate for the bachelor's degree is required to choose two groups from each of the following divisions (A, B, C),\* in the amount indicated, which shall be completed before the end of his junior year:

	Hours
A (1) Mother Tongue.....	6
(2) Classics (Greek or Latin). . . . .	10
(3) Modern Language (other than English) . . . . .	10
B (4) History .....	6
(5) Philosophy.....	6
(6) Political Economy or Political Science.....	6
C (7) Exact Science (Astronomy, Mathematics) . . . . .	10
(8) Physical Science (Chemistry or Physics). . . . .	6
(9) Biology (Botany or Zoology). . . . .	6

A subject from the groups taken in the student's first semester must be continued in his second semester.

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\*See pages 70, 71.

## THE UNIVERSITY YEAR

The year's work of the various colleges and schools of the University in general falls into the following subdivisions:

**The First Semester**, beginning the third Tuesday of September (Wednesday in 1912), and continuing eighteen weeks. The Mid-Winter Commencement, for those finishing their work at the end of a first semester, is held on University Charter Day (February 15), except when it falls on Saturday or Sunday, in which case the exercises are held on the preceding Friday or the succeeding Monday.

**The Second Semester**, being about February 1, and continuing eighteen weeks. The Spring Commencement, for those completing a course at the end of a second semester, occurs on Thursday of the week of the regular June meeting of the Board of Regents. This meeting is held on the first Tuesday after the first Wednesday in June of each year.

**The Summer Session**, usually beginning the week preceding the spring commencement or during the period of the last full week of regular class sessions of the second semester, and continuing eight weeks. Graduation exercises for those completing their University course at the end of a summer session are held on the last Friday of the summer session.

## ADMISSION TO THE UNIVERSITY

Admission to the University is gained only through registration in some one of its seven colleges or four schools. The requirements for admission to these vary only in small degree, and may also be found by consulting the portion of the catalog devoted to the college or school which the student desires to enter. Effective September 1, 1911, the requirements for admission to the various colleges are as given below. An entrance credit or "point" is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses a credit "point" is given for three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least eighteen weeks; in laboratory courses without recitation, the equivalent of fifteen single periods each week are required.

	Subjects	Required Points (17)	Elective Points (13)
1. English*	.....	4	1 or 2
2. History*	American .....		1 or 2
	European .....	2	1 or 2
3. Language (Ancient, Modern)†.	.....	6	2 to 8
4. Mathematics‡			
	Algebra.....	3	
	Geometry (Plane).....	2 (Solid)	1
	Trigonometry.....		1
5. Science?.....			
	Agriculture .....		1
	Botany .....		1 or 2
	Chemistry.....		1 or 2
	Physical Geography .....		1
	Physics, (with laboratory, 2).....		1 or 2
	Zoology.....		1 or 2
6. Miscellaneous	Other subjects taught in an approved manner in an accredited secondary school (one each)....		6

\*1. English: A few of the strongest accredited high schools may, by

\*2. History: special action of the Committee on Accredited Schools, be granted two additional elective points, in each of these groups.

†3. Language: Four of the six points required must be in Latin to enter the College of Arts and Sciences, and the College of Medicine. For entrance to the other colleges of the University any foreign language may be offered to meet the requirement. The Committee on Accredited Schools may accept German or French to meet the required six points in foreign languages, in the case of specially approved accredited schools, for entrance to any College except that of Medicine.

‡4. Mathematics: Three points in Geometry are required for entrance to the College of Engineering.

§5. Science. Physics: Two points in Physics are required for entrance to the Colleges of Agriculture, Engineering and Medicine and these may be offered in the place of two points in language.

Chemistry: Two points in Chemistry should be offered for entrance to the College of Agriculture, Engineering and Medicine.

Where two or more points in any one subject are shown among the elective points above, one semester's work will receive credit. It is preferred, however, that the subject be carried not less than one year.

**Accredited Schools.** The University maintains a list of "accredited" secondary schools whose graduates are admitted to any college or school of the University (and to nearly all of the colleges or universities of the United States) without entrance examinations in those subjects whose completion within such schools is properly certified. Unless a graduate of an "accredited" school a candidate for admission must be prepared to take entrance examinations in those subjects in which he desires entrance credits. "Accredited" schools are such as are, under annual inspection by the University inspector of accredited schools, found to have a well-balanced program of studies, satisfactory laboratory equipment and library facilities, and a teaching force adequate in number and competent in scholarship and professional training to accomplish the work they are undertaking. This list of accredited schools is published yearly in the University Calendar, the University Journal, and the High School Manual. At present there are two lists of accredited schools: (1) those which prepare fully for the first year of University work; and (2) those preparing for the lowest classes carried at the University. Any public or private high school or academy desiring to be placed on the accredited list should make request to the Inspector of Accredited Schools. The High School Manual, giving detailed information in regard to accredited schools, including general and departmental suggestions as to courses of study and methods of instruction, and the list of accredited schools, is sent upon application to the Registrar.

**Four-year Accredited Schools.** The following four-year secondary schools were accredited to the University for the year 1910-1911, to receive not to exceed 28 to 32 points of entrance credit, according to the work of the individual graduate:

Adams	Auburn	Bloomington
Albion	Aurora	Blue Hill
Alliance	Bancroft	Blue Springs
Alma	Battle Creek	Brady
American School, Mexico	Beatrice	Bridgeport
Arapahoe	Beaver City	Broken Bow
Arlington	Beaver Crossing	Brownell Hall (Omaha)
Ashland	Bellevue Academy	Burwell
Atkinson	Blair	Butte
	Bloomfield	Butte, Mont.

Cambridge	Genoa	Marysville, Kan.
Canton, S. D.	Gibbon	Minden
Cedar Rapids	Gothenburg	Missoula, Mont.
Central City	Grand Island	Mt. St. Mary's Seminary (Omaha)
Chadron	Grand Island Academy	Nebraska City
Cheyenne, Wyo.	Great Falls, Mont.	Nebraska Military Academy (Lincoln)
Clarks	Greeley	Nebraska Wesleyan University Academy (University Place)
Clay Center	Gretna	Neligh
Columbus	Hartington	Nelson
Cotner University Academy (Bethany)	Harvard	Newman Grove
Cozad	Hastings	Norfolk
Crawford	Hastings College Academy	North Bend
Creighton	Havelock	North Platte
Creighton University Academy (Omaha)	Hebron	Oakdale
Crete	Hiawatha, Kan.	Oakland
Culbertson	Holdrege	Ohioawa
Dana College Academy (Blair)	Hooper	Oklahoma City, Okla.
Davenport	Humboldt	Omaha
David City	Immaculate Conception Academy (Hastings)	O'Neill
Deadwood, S. D.	Kearney	Ord
Diller	Kimball County	Oregon, Mo.
Doane College Academy (Crete)	Lawrence	Orleans
Edgar	Laurel	Orleans Seminary
Emerson	Lead, S. D.	Osecola
Exeter	Leadville, Colo.	Ottawa, Kan.
Fairbury	Le Mars, Ia.	Overton
Fairfield	Lexington	Oxford
Fairmont	Lincoln	Papillion
Falls City	Lincoln Academy	Pawnee City
Franklin	Little Rock, Ark.	Pender
Franklin Academy	Louisville	Pierce
Fremont	Loup City	Plainview
Friend	Luther Academy (Wahoo)	Plattsmouth
Fullerton	Lyons	Ponca
Gates Academy (Neligh)	McCook	Randolph
Geneva	Madison	Ravenna
	Mankato, Kan.	Rawlins, Wyo.

Red Cloud	South Omaha	Ulysses
Red Oak, Ia.	Spalding Academy	University Place
Sacred Heart Academy (Omaha)	Spencer	University Prepara-
St. Catherine Academy (Jackson)	Springfield	tory School
St. Edward	Stanton	(Tonkawa, Okla.)
St. Frances Academy (Council Bluffs, Ia.)	Sterling	Valentine
St. Mary's Academy (O'Neill)	Stromsburg	Valley
St. Paul	Sturgis, S. D.	Wahoo
St. Theresa's High School (Lincoln)	Superior	Wakefield
Schuylerville	Sutton	Wayne
Scottsbluff	Syracuse	Weeping Water
Seward	Table Rock	Weeping Water Acad-
Shelton	Teachers College High	emy.
Sheridan, Wyo.	School, The University of Nebraska	West Point
Sidney	Tecumseh	Wilber
	Tekamah	Wisner
	Tilden	Wood River
	Trenton	Wymore
	Tulsa, Okla.	York

**Three-year Accredited Schools.** The following three-year secondary schools were accredited to the University for the year 1910-1911, to receive from 22 to 27 points of entrance credit, according to the work of the individual graduate:

Ainsworth	Ewing	Leigh
Beemer	Florence	Louisville
Benkelman	Ft. Calhoun	McCool Junction
Benson	Giltner	Mead
Bertrand	Gordon	Merna
Butte	Grafton	Milford
Campbell	Greenwood	North Loup
Cedar Bluffs	Guide Rock	Ogallala
College View	Hardy	Pilger
Craig	Herman	Republican City
Dawson	Hickman	Riverton
DeWitt	Holbrook	Rulo
Dodge	Jackson	Rushville
Douglas	Kearney Military	Sacred Heart High
Dunbar	Academy	School (Omaha)
Elgin	Kenesaw	Sargent
Elmwood	Lawrence	Scribner

## THE UNIVERSITY OF NEBRASKA

Shelby	Talmage	Waterloo
Silver Creek	Tobias	Wausa
Stella	Trenton	Western
Stratton	Utica	Wilsonville

## REGISTRATION

Candidates for admission to any of the colleges or schools of the University must forward their entrance credentials to the University Registrar. This should be done at least one month in advance of the opening of the candidate's first semester. On the opening or registration days of the semester, the candidate presents himself in person, at the Registrar's office (Administration Hall), where he receives instructions as to such other steps as may be necessary to complete his registration. Registration is governed by certain regulations and restrictions in each college and school of the University, and those of the college the candidate expects to enter should be studied carefully before the work of registration is undertaken.

## FEES AND EXPENSES

**Fees.** Fees of varying amount are charged for various purposes in all of the colleges and schools of the University. The amount in any college or school may be found by consulting the portion of the catalog devoted to that college or school. All fees must be paid to the secretary at the time of registration. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance, the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a class or from the University.

**Board, Room, Employment.** The average cost of a year's attendance at the University (not including fees of any kind) is about \$300. Many students reduce this amount. Board and lodging may be had among families of the city. In September the Young Men's Christian Association and the Young Women's Christian Association make, under the direction of the Registrar, a canvass of the city and keep on file lists of rooms and boarding places. The Young Men's Christian Association maintains an employment bureau. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the University do not, however, undertake to find employment for students. A student is advised not to enter

the University unless he can count upon resources for one semester—at least \$150.

### UNIVERSITY STUDENT ORGANIZATIONS

**Religious.** The Young Men's and Young Women's Christian Associations, non-sectarian and voluntary organizations of Christian men and women, members of the University, organize and conduct Bible study among the students, hold public meetings, help students to find suitable rooming and boarding places, give free aid to students in search of employment, and publish an annual Students' Handbook containing information especially valuable to new students. Inquiries should be addressed to the Secretary of either the Young Men's or the Young Women's Christian Association, Station A, Lincoln, Nebraska. The Students Volunteer Movement is composed of those who have declared their purpose to become missionaries, and meets once a week for devotional and critical Bible study.

**Literary and Social.** The Palladian and the Union are open literary societies meeting weekly on Friday evenings in their rooms in the Temple. The University Girls' Club is an organization formed to cultivate friendly and helpful relations among women students irrespective of department, course of study, or church or society affiliations. All women students and women members of the faculties are eligible to membership. The Dramatic Club is an organization of students interested in amateur theatricals. It gives several plays each year. Membership is by election. The English Club is a writers' club, composed of advanced students and of instructors interested in writing. The club meets regularly to hear and discuss contributions by its members. Membership is by election. The Deutsche Gesellige Verein, the German Club, the Komenian Club and the Tegner Socitey are literary and social organizations, whose main purpose is the study of history and language of Germany, Bohemia, and Scandanavia, respectively.

**Scientific.** The Graduate Club, the Debating Club, the Agricultural Students' Association, the Botanical Seminar, the Chemical Society, the Chemical Journal Club, the Engineering Society, the English and Latin Seminaries, the Latin and Physics Colloquia, the Microscope, Forestry and Zoological Clubs are more specially collegiate or departmental organizations, concerning which information is given in those portions of the catalog devoted to the different colleges and schools.

**Musical.** The University Chorus, open to all students, gives each year several cantatas and oratorios and participates in the May Music Festival. The Cadet Band, a military band, gives several home concerts annually and furnishes music on occasions of general University interest. The Glee

and Mandolin Club gives concerts in Lincoln and throughout Nebraska and adjoining states.

**Military.** The Pershing Rifles is an organization of cadets composed of the best-drilled men in the University Cadet Battalion. Membership is by election. The Workizer Rifles is a similar organization in the School of Agriculture Cadet Battalion.

### HONORS AND PRIZES

**Fellowships and Scholarships** are established in the different departments of the Graduate College, the College of Arts and Sciences, and the Teachers College, where extra help is needed for instruction. These are awarded either to graduate or to undergraduate students recommended by the heads of departments. They are not gifts or benefactions from the state but means by which services, assisting the holder in some special line of work, may be rendered to the University. For additional information see the announcement of the above colleges.

**The William Jennings Bryan Prize.** For the best essay on the science of government is offered annually the income of \$250, the gift of Hon. William Jennings Bryan. For detailed information apply to the professor of American history. This prize was awarded in 1909-1910 to James Alexander Cline.

**Prizes for Excellence in Bohemian**, offered by the Bohemian Council of Higher Education. (1) To the student of the first year Bohemian class who attains the highest rank during both semesters, the Council of Higher Education offers a prize of books representing the best Bohemian literature. In 1910-1911 this prize was awarded as follows: First, Belle Pipal; second, Vlasta Sterba and Louise Dusatko.

**The Andrew Lanquist Prize in Swedish Language and Literature.** A prize of twenty-five dollars, the gift of "Föreningen för Svenskhetens bevarande i Amerika," is awarded yearly to the student who receives the highest standing in Swedish language and literature. The prize is awarded under the following regulations:

1. The student shall have pursued for at least one year the most advanced courses in Swedish given at the University.
2. He shall be taking at least twelve hours work in the University.
3. His general average in all subjects shall be 80 per cent or above.

In 1910-1911, this prize was awarded equally to Martina Caroline Swenson and Grace Esther Munson.

**Athletic and Military Trophies.** Cups or other trophies are offered for the winners in the annual Freshman-Sophomore Contest, Class Field Day, State Inter-Collegiate Field Day, Inter-state Baseball League Champion-

ship, Champion Outdoor Pentathlon, Company Drill, Artillery Drill, Individual Infantry Drill, and Individual Company A Drill.

**Other Prizes** are offered by the College of Law and the College of Medicine for excellence in the work of those colleges. See College of Law and College of Medicine.

**Honorary Societies.** Phi Beta Kappa, founded by Thomas Jefferson, has for its object the promotion of scholarship among the students and graduates of American colleges; the Nebraska Alpha chapter, founded in 1896, annually elects to its membership the one-tenth to one-sixth of the graduating class whose scholarship rank is highest. Sigma Xi is a similar organization for the encouragement of original investigation in Science, pure and applied, and Theta Kappa Nu for promotion of scholarship in law. Delta Sigma Rho is a national society organized in 1906 by universities of the West to promote among college students the art of effective public speaking and debate, and its membership is confined to authorized representatives of universities and colleges in intercollegiate contests in debate or oratory. Phi Alpha Tau is an inter-collegiate honorary fraternity, organized by members of the University Debating Squad of 1906 to promote the art of public speaking and debate, and confines its membership, which is limited and by election, to students who have exhibited special interest in public speaking and debate and who have shown some special aptitude for that work.

#### LOAN FUNDS

Hon. John R. Webster, of Omaha, has donated the sum of \$1,000 to the University to be used as a permanent loan fund for students in any college who may be in actual need of assistance. All money paid in over amounts thus loaned shall be applied to increase the fund.

Dr. John Alexander Low Waddell of Kansas City and Hon. William Gunn Whitmore, of Valley, Nebraska, have given the sum of \$1,000 each to the University to be used as a permanent loan fund for students in engineering. The plan and provisions for its use are not as yet announced.

#### PUBLICATIONS

**General University Publications.** In addition to its annual Calendar and other periodic Bulletins, the University publishes monthly (except July and August) the University Journal, devoted to the relations of the University with the secondary schools of the state and with the University Alumni. General student publications include the Daily Nebraskan, The Cornhusker (annual), and the Students' Handbook (annual). One number of the Bulletin of the University is entitled The High School Manual and is devoted to high school problems.

**Departmental or Special Publications** are the University Studies (see the Graduate College), Studies from the Zoological Laboratory, Reports of the Botanical Survey of Nebraska, the Flora of Nebraska, the Nebraska Geological Survey, and the Bulletin of the University College of Medicine. The Nebraska Engineering Blue Print is an annual publication by the Engineering Students.

### MISCELLANEOUS INFORMATION

**Students' Mail** sent direct to the University, should be addressed "Station A, Lincoln, Nebraska." This United States post-office is in effect part of the University, occupying University Hall 104, convenient to all students.

**Convocation.** Voluntary religious exercises are held in the Chapel at eleven o'clock Tuesday and Thursday. These are followed by either an interesting address on some important topic of the time or by a musical program.

**Women's Parlors.** In Soldiers' Memorial Hall a beautiful parlor has been furnished by members and friends of the University for the use of all women members of the University without reference to religious or other affiliations. Also, a study room open to all university women is provided in the basement of University Hall.

**Care of the Sick.** The University much needs an infirmary for the care of students when ill. Such students are, however, carefully provided for even at present, on application to the chancellor, at whose office all cases of serious illness should be reported.

**Visitors to the University.** Visitors are always welcome. High-school classes, clubs, or parties should, a few day in advance, inform the Registrar of their coming.

**Meetings of State Societies.** Many state societies hold their annual meetings at the University. The University is always pleased to extend its hospitality and the use of its buildings to any of these or to any similar organization.

**The Alumni Association,** organized in 1874, is composed of the graduates of the University, including graduates receiving higher degrees. The annual meeting is held the day before Commencement Day in June.

### RULES AND REGULATIONS GOVERNING STUDENTS

The proper University authorities have established several definite rules and regulations for the government of student conduct and activities within the University. Each student is expected to familiarize himself with

these rules and is held responsible for compliance with their provisions. The rules and regulations are as follows:

### Registration

1. Each student should register at the Registrar's office at the beginning of each semester on one of the days set apart for registration. To promote prompt registration a fee of three dollars (\$3) is charged a student who, unless excused by the Chancellor, for any reason seeks to register later.
2. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in registration once made, dropping a study or adding a study, is regarded as a re-registration.
3. No first or second year student (freshman or sophomore) may register for more than five subjects (exclusive of drill or physical training). No first year student may register for more than 16 credit hours, except on written permission of the dean of his college, and then for a maximum of 18 credit hours. All students above first year who have attained an average grade of 80 per cent during the previous year may register for 18 credit hours.  
3a. No first or second year student may register for more than one one-hour course (exclusive of drill and physical training) in any one semester; and no third or fourth year student may register for two one-hour courses in any one semester.
4. A student who fails in a required subject must register for that subject again the first time it is offered.
5. A student who is conditioned ("C") or incomplete ("I") in a subject must remove the condition or incomplete by the end of the first semester in which that subject is again offered or it becomes a failure.
6. A student cannot attend a class for which he is not registered. The official certificate of registration, signed by the Registrar, is the only evidence of registration to be accepted from the student by an instructor. Credit is not granted for a subject pursued without registration.
7. No student is allowed to change from one group of studies to another or from one college to another without written permission by the dean of each college concerned. A student changing college must also pay a new matriculation fee of five dollars (\$5).
8. A student who, by virtue of special circumstances, is allowed to register for less than the minimum twelve (12) hours required of regular students, receives this permission only for such time as the special conditions continue. No person is allowed to abuse the privilege of registering as a special student to secure merely nominal membership in the University,

whether for social purposes or to engage in athletics or for any other reason.

9. Every detail of registration and record from the time the student leaves the high school until he graduates from the University, together with the interpretation of all the rules relating thereto and the publication of the same, are under the supervision of the Registrar, who is responsible directly to the Chancellor.

#### Military Drill and Physical Training

10. Each regular and special student in the College of Arts and Sciences, the College of Engineering, and the College of Agriculture must fulfill the requirements in military drill (for men) and in physical training (for women) in the Freshman and Sophomore years, unless excused or reprieved.

11. Only properly attested physical disability or conscientious scruples (on the part of parent in case of a minor) are accepted as excuses from the requirement in military drill. All students permanently excused from drill who are not physically disabled, except students who have been given credit for equivalent drill elsewhere, will be required to take two years of physical education. Only properly attested physical disability is accepted as excuse from the requirement in physical training.

#### Attendance

12. Regular attendance is required at all recitations, laboratory and field work.

13. All absences are reported to the Registrar weekly by instructors.

14a. Temporary leave of absence may be granted a student by the dean of his college. This leave of absence is not an excuse from any work.

14b. Each unexcused absence in any subject may, in the discretion of the instructor, deduct three points from the student's semester grade in that subject.

15. Permission to withdraw from the University before the close of a semester is granted by the Registrar.

#### Examinations

16. Examinations or tests in every class in the University are held at the option of the instructor each semester as follows: (1) at the middle of the semester; (2) at the close of the semester.

#### Special Examinations

17. The board of regents has made the following ruling: (1) No student

has a right to demand a private examination. Such examinations are granted simply as favors, at the option of instructors. (2) No member of a class or section may, for any reason or under any pretext whatever, be privately examined at an earlier time than that set for a class or section. Any individual examination permitted must be held later. (3) To be examined at a time later than that set for his class or section, whatever the reason, a student must pay a special examination fee of \$1 a course. The student desiring an individual examination in any course, first obtains his instructor's consent thereto, and then pays the Secretary the proper fee, taking a receipt. This receipt, being shown the instructor, authorizes him to proceed with the examination.

18. No student is allowed to take any book or paper into the examination room unless the instructor expressly so directs.

#### Reports—Standing

19. On the attendance and standing of each student in each course the instructor makes to the Registrar the following regular reports:

A. At the end of each week he reports the absences for the week and all cases of delinquency.

B. At the middle of the semester he reports all students who are below a passing grade as shown by class-room work and the mid-semester examination or test.

C. At the end of the semester he reports the proficiency each student has attained. All grades above passing (60)\* are reported to the Registrar in figures, either in straight percentages or in multiples of five. Below passing the following are the markings: F = Failure (below 60); C = Conditioned; I = Incomplete. Also, A = Withdrew in good standing; D = Delinquent at time of withdrawal; W = Withdrew without permission.

#### Discipline

20. A student who at mid-semester is thru neglect delinquent in one-half or more of his work (as determined by the number of hours) is dropped from the University. If he is delinquent in two or more subjects but less than one-half of his work, he is placed upon probation for one month.

21. A student who at the end of the semester fails in one-half or more of his work is refused registration the following semester. The administration of rules 20 and 21 is in the hands of a standing committee of the senate.

22a. A student who, in any semester, is not satisfactorily carrying at

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\*See statement concerning "Grades" in the College of Arts and Sciences and "The University Teachers' Certificate" in the Teachers College.

least twelve (12) hours is debarred from representing the University that semester on any athletic or debate team or board, on a glee, mandolin or dramatic club, on the staff of any college publication or in any other University organization; moreover a student who fails to pass in twelve (12) hours at the end of a semester is debarred from representing the University in any capacity the semester following. In case a student in any of the above named student enterprises fails, any semester, to carry satisfactorily the work or any part thereof for which he is registered, the Committee on Delinquent Students may at its discretion lessen the hours of such student's registration.

22b. Women students in the University shall not take part in out-of-town performances such as dramatic and glee club presentations, elocution recitals, etc., during the regular sessions of the University, and at other times only after permission is granted by the Committee on Student Organizations and Social Functions.

22c. All University functions, including social gatherings of departmental clubs, shall be held on Friday and Saturday evenings.

All meetings of the following named University clubs and organizations holding later than 7.30 p.m. shall occur on Friday and Saturday evenings except by special permission of the Committee on Student Organizations:

Agricultural Club, Botanical Seminar, Chemistry Club, Dramatic Club, Electrical Engineering Society, English Club, Engineering Society, Entomological Society, Forestry Club, German Club, Germanistische Gesellschaft, Komensky Club, Latin Club, Mechanical Engineering Society, Medical Society, Pharmaceutical Society, Platform Club, Students' Debating Club, Tegner Society.

23. Whenever a student is dropped from the University on account of vicious or wanton delinquency his name is published.

#### Suspension—Expulsion

24. A student may be refused registration, suspended or expelled for persistently infringing the good order and comity of the University as by dishonesty in written work, the acts inhibited under "Prohibitions" below, or any conduct injurious to the work or the good name of the University.

#### Dishonesty in Written Work

25. The case of any student detected in dishonestly giving or receiving aid during an examination must be immediately reported to the dean of his college by the instructor in charge of the examination or by the head of

the department with a succinct account of the evidence in the case. In cases of clear guilt the deans affix penalties in accordance with deserts.

Dishonesty in written work, themes, essays, reports, theses and the like, is treated in the same way as dishonesty in examinations. The turpitude consists in the presentation as one's own of work or results really borrowed in whole or in part from another.

### Prohibitions

26. Students must not frequent gaming houses or saloons, or brothels, or engage in gambling, or use intoxicating drinks, or do any other acts inconsistent with good morals. A student must not neglect a call of the Chancellor, Dean, Registrar, or other University officer, or of any professor in the faculty of a college in which he is registered. In all matters pertaining to University property students must obey the Superintendent of Grounds and Buildings. Disorderly or boisterous gatherings of students on the grounds or elsewhere, all interference with individual liberty or with property or other rights, attacks upon one class by another, or efforts to interrupt legitimate assemblages of students are prohibited.

### Petitions—Meetings

27. The right of respectful petition is open to all students.

28. No extraordinary meetings of students are permitted on University grounds or within any University building, for any purpose whatever except after and in pursuance of a written or printed notice or call stating clearly the business of such meeting. Said notice must be signed by at least three students, approved by the executive office, and be posted openly on the bulleting board in University Hall. Such meetings must always be open and they are subject to immediate adjournment by the Chancellor or his representative in case of disorder.

### Boards of Control

29. The University Athletic Board, composed of six faculty members, one alumnus, and five student members elected annually, controls athletics in the University.

30. The University Debating Board, composed of seven faculty members (ex-officio) and of five student members elected annually, supervises all public debates between students of the University and other institutions.

31. The Student Publication Board, composed of five faculty members and three student members, has general oversight over all publications by University students.

**Control of Students' Organizations**

32. Every non-athletic organization or enterprise of University students bringing students financially into relations with the public is required each year to submit its accounts, not later than May 1st, for audit to the Senate Committee on Student Organizations.

No student connected with any financial work who has not in the above manner satisfactorily accounted for all money entrusted to him or for which he has been responsible is graduated or given an honorable dismissal from the University.

All supplies, for students, of a semi-official character, such as class invitations, etc., shall be ordered by the committee in charge through the University Purchasing Agent, who has entire financial charge of such matters. He will handle such business precisely as he secures books and other supplies for students.

**Library and Use of Books**

33. Any student regularly registered may take out two books at the closing hour of a day, such books to be returned promptly at the next opening hour. Only two books at a time may be taken out under this privilege.

On written permit from the head of a department any student may draw one book at a time to be kept not more than one week. Such permit is good only for books pertaining to the department issuing the permit.

A student leaving Lincoln for more than one week must on or before leaving return all the library books in his possession.

The following classes of books are not circulated: reference books shelved in the reading room; periodicals, whether bound volumes or current numbers.

Books especially reserved for class use may not be taken out except over night.

Talking is not permitted in the library.

The library board may, on recommendation of the librarian, suspend from library privileges any person who persistently disregards these rules or in any way misbehaves.

**Announcements—Notices—Residence**

34. The residence of men and women students in the same lodging houses (as distinguished from families) is not approved and not, as a rule, permitted.

35. A landlady rooming women students is expected to provide for their use, till half after ten on Friday, Saturday, and Sunday evenings, or on two of these evenings, a reception room properly warmed and lighted.

36. Women students in these houses will receive gentlemen callers only in the reception rooms. Gentlemen will take notice and govern themselves accordingly.

37. Any official University announcement or notice is considered as duly published and as binding upon all students when it is placed upon the official bulletin board or when it is announced at convocation.

38. Emergency or specially important meetings of the University body are called by the display of red-letter notices on all bulletin boards. Obedience to such calls is obligatory on all students.

39. No notice of a meeting of any class or any student organization can be placed upon any of the official bulletin boards unless countersigned by the Registrar.

40. No private advertising announcements can be placed upon any of the University bulletin boards.



# The Graduate College

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

\*PHILIP JOHN HARRISON, A. B., Registrar and University Publisher.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Dean of the Graduate College and Head Professor of the English Language and Literature. Administration Hall 104.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University.

ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics, and Dean of the College of Arts. and Sciences.

\*CHARLES RUSS RICHARDS, M. E., M. M. E., Head Professor of Mechanical Engineering and Practical Mechanics and Dean of the College of Engineering.

CHARLES FORDYCE, Ph. D., Professor of Educational Theory and Practice and Dean of the Teachers College.

ROBERT HENRY WOLCOTT, A. M., M. D., Head Professor of Zoology and acting Dean of the College of Medicine.

GROVE ETTINGER BARBER, A. M., Head Professor of Roman History and Literature.

HOWARD WALTER CALDWELL, A. M., Head Professor of American History.

LAWRENCE BURNER, B. Sc., Head Professor of Entomology and Entomologist of the Experiment Station.

LAURENCE FOSSLER, A. M., Head Professor of the Germanic Languages and Literatures.

JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and Literature.

ERWIN HINCKLEY BARBOUR, Ph. D., Head Professor of Geology, and Curator of the University Museum.

FRED MORROW FLING, Ph. D., Head Professor of European History.

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\*Resigned.

- OSCAR VAN PELT STOUT, B. C. E., C. E., Head Professor of Civil Engineering.
- WILLIAM GEORGE LANGWORTHY TAYLOR, A. B., LL. B., Professor Emeritus of Political Economy and Commerce.
- GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor of Education.
- GEORGE ELLIOTT HOWARD, Ph. D., Head Professor of Political Science and Sociology.
- GEORGE RICHARD CHATBURN, B. C. E., A. M., C. E., Head Professor of Applied Mechanics and Machine Design.
- PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.
- HARRY KIRKE WOLFE, Ph. D., Head Professor of Philosophy.
- FREDERICK JAMES ALWAY, Ph. D., Head Professor of Agricultural Chemistry.
- GEORGE EDWARD LE ROSSIGNOL, Ph. D., Head Professor of Political Economy and Commerce.
- GOODWIN DE LOSS SWEZEY, A. M., Professor of Astronomy.
- CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures.
- MILLER MOORE FOGG, A. M., Professor of Rhetoric.
- EDGAR LENDERSON HINMAN, Ph. D., Professor of Logic and Metaphysics.
- CLARENCE AURELIUS SKINNER, Ph. D., Professor of Physics.
- GEORGE EVERET CONDRA, Ph. D., Professor of Geography and Economic Geology.
- EDWIN MAXEY, D. C. L., Ph. M., Professor of Public Law and Diplomacy.
- ALBERT LUTHER CANDY, Ph. D., Professor of Pure Mathematics.
- WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts.
- BURTON EVANS MOORE, Ph. D., Professor of Physics.
- PAUL HENRY GRUMMANN, A. M., Professor of Modern German Literature.
- HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.
- \*FRANK J. PHILLIPS, M. S. F., Professor of Forestry.
- HUTTON WEBSTER, Ph. D., Professor of Social Anthropology.
- CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics.

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\*Deceased.

\*BENTON DALES, Ph. D., Professor of Chemistry.

RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Pharmacodynamics.

LEON WILSON CHASE, B. Sc., Professor of Agricultural Engineering.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy.

EDWIN MEAD WILCOX, Ph. D., Professor of Agricultural Botany  
and Botanist of the Experiment Station.

JOHN EDWIN ALMY, Ph. D., Professor of Experimental Physics.

EDWARD GERRARD MONTGOMERY, A. M., Professor of Experimental Agronomy.

GEORGE OLIE N VIRTUE, Ph. D., Professor of Political Economy  
and Commerce.

JOSEPH HORACE POWERS, Ph. D., Professor of General and Experimental Zoology.

CHARLES WILLIAM PUGSLEY, B. Sc., Professor of Agronomy and Soil Agronomist.

FREDERICK AMES STUFF, A. M., Professor of the English Language  
and Literature.

GEORGE ANDREW LOVELAND, A. M., LL. B., Associate Professor of Meteorology, and Observer of the United States Weather Bureau.

LOUISE POUND, Ph. D., Associate Professor of the English Language  
and Literature.

†CHARLES WILLIAM WALLACE, Ph. D., Associate Professor of the English Language and Literature.

GUERNSEY JONES, Ph. D., Associate Professor of American History.

LUCILE EAVES, M. S. C., Ph. D., Associate Professor of Practical Sociology.

CLARK EDMUND PERSINGER, A. M., Associate Professor of American History.

FRANKLIN DAVIS BARKER, Ph. D., Associate Professor of Zoology.

WILLIAM CHARLES BRENKE, M. S., Ph. D., Associate Professor of Mathematics.

LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political Science.

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\*In charge of the Department of Chemistry.

†On leave of absence.

- PHILIP K. SLAYMAKER, M. E., Associate Professor of Applied Mechanics and Machine Design.
- FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- CHARLES LEE DEAN, B. Sc., in M. E., Assistant Professor of Mechanical Engineering.
- LOUIS BRYANT TUCKERMAN, Jr., A. B., Assistant Professor of Physics.
- JULIA KORSMEYER, A. M., Assistant Professor of the Romance Languages and Literatures.

### GENERAL INFORMATION

**Organization and History of the Graduate College.** Graduate instruction in the University of Nebraska was organized in 1886. In September of this year, courses were offered in thirteen subjects, including Sanskrit, Old French, Germanies, and Institutional History. In 1895, a Graduate School was organized, under a dean, and a designated faculty. The number of students increased steadily, and in 1898 thirty-nine candidates received degrees. During this second period lasting till 1909, many graduate subjects were added, including Astronomy, Bacteriology, Commerce, Education, English History, Geography, Physiology, and Sociology. In the legislative session of 1909, the charter of the University was amended, and the establishment of seven colleges, instead of the five colleges named in the charter, was authorized. By this act, the Graduate School became the Graduate College of the University of Nebraska.

**Purpose of the Graduate College.** The Graduate College extends and enlarges the work of the undergraduate departments, in order to provide facilities for specialization and research. It enables students to employ themselves for two or more semesters on uncompleted subjects, or other work for which the discipline of college training has prepared them. It furnishes expert and standard preparation for those who expect to become investigators, consulting engineers, or teachers in academies and colleges. The Graduate College offers these privileges, which would be costly in an institution differently endowed, practically without expense to the student.

**Degrees.** The degrees of Doctor of Philosophy, Master of Arts, Master of Forestry, Civil Engineer, Electrical Engineer, and Mechanical Engineer are conferred on registered students, by the Board of Regents, upon recommendation of the Graduate faculty.

### THE GRADUATE COUNCIL

The affairs of the Graduate College are administered by a Council of eight members, representing approximately the following groups of subjects: Mother Tongue; Classic Languages; Modern Language other than English; History and Sociology; Philosophy and Economics; exact Science; Physical Science; Biological Science. The members of the Council serving the present year are Professors Chatburn, Frye, Grummann, Howard, Lees, Skinner, Wilcox, Wolfe.

**ADMISSION TO THE GRADUATE COLLEGE**

**Classes of Graduate Students.** The Graduate College recognizes three classes of applicants: those who, having taken a bachelor's degree, wish to broaden their education without reference to higher degrees; those who wish to be candidates for advanced degrees, but are deficient in undergraduate preparation; and those who are eligible to candidacy, and wish to enter at once upon their special work. Those who do not wish to be candidates for an advanced degree are at once admitted, on evidence of graduation, to approved work in the Graduate College. Persons presenting first degrees in Law or Medicine or Theology may be admitted in this class. Those seeking advanced degrees, with insufficient preparation, are admitted to graduate standing, but must at once make up their deficiencies by taking courses in the undergraduate colleges. On completion of these assigned or arranged courses, such students become applicants of the third class, and are eligible to candidacy for the degree desired.

**Registration.** Graduates of the undergraduate colleges of this University, or of other colleges having equivalent courses and requiring four years of standard preparation, who have been accepted and approved by heads of departments in charge of the subjects proposed, are registered by the Dean of the college for the degree they designate. For the degree of Doctor of Philosophy, the candidate must be registered for a major subject, and an approvable related minor, or a major subject and two approvable related minors. Candidates for the degree of Master of Arts may be registered for a major and a minor subject, or for a major and two minors, or may concentrate all work upon a single subject.

**Fees.** Fellows and scholars engaged in teaching, laboratory supervision, or other similar work, are charged only the matriculation fee of \$5.00. Other graduate students are required to pay the following fees:

Matriculation, on entrance.....	\$5.00
Incidental, each semester.....	3.00
*Library, each semester.....	1.00
Diploma fee, for each advanced degree .....	10.00
† <i>In absentia</i> additional diploma fee.....	10.00

The usual laboratory fees are required of those taking work in any science or engineering department. But any student who is able to devote only a portion of his time to his University work may, upon the recommend

\*Graduate students taking laboratory work are charged the usual laboratory fees; a student paying any laboratory fee is not required to pay the library fee.

†The doctor's degree cannot be taken *in absentia*.

dation of the Graduate Council to the University Secretary, be permitted to register free of charge after he has paid the usual dues and fees for four semesters, if a candidate for the degree of Master of Arts, and for eight semesters, if a candidate for the degree of Doctor of Philosophy.

#### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY**

Candidacy for the degree of Doctor of Philosophy can in no case be completed in less than three years of graduate study. Two years of such work, in another institution, when carried with proper facilities and under competent instruction, may be credited by the Graduate Council; but the last year of candidacy must be spent in residence in the Graduate College. Each candidate must, at registration, satisfy the Graduate Council that he has a reading knowledge of French and German, or must arrange with the heads of these departments with reference to his deficiencies.

**Preliminary Examination.** Not later than one school year before his final examination, each candidate for the degree of Doctor of Philosophy must submit to a preliminary examination. This examination may be waived, however, in the case of a candidate who has taken his Master's degree in this University.

**Thesis.** On completion of his studies, the candidate must present an acceptable thesis. The thesis, prepared upon a topic that has been approved by the professor in charge of the major subject, must show evidence of scholarly research. It must be typewritten, paged, and bound according to a prescribed form, which may be seen in the University library. It must be submitted to the professor in charge of the major subject at least two months before the intended graduation of the candidate. When it has been approved by the examining committee, it will be placed in the chancellor's office, where, during a period of not less than two weeks, it will be available for inspection by members of the faculty. A public defense of the thesis may be required of the candidate. After the thesis has been finally approved, the candidate must file an original and a duplicate typewritten copy of it with the librarian. The original copy of the thesis so filed may not be loaned, or pass from the custody of the library under any circumstances or pretext whatsoever. It is also required of the candidate that he have printed and deposited in the library of the University one hundred copies of his thesis, to be subject to the control of the librarian and the head of the department concerned. All theses and printed copies thereof must be provided with a cover and a title page lettered in a form prescribed by the librarian. The degree, however, may be conferred before the thesis is printed, provided a security bond be furnished and

filed with the secretary of the board of regents. The amount of this bond is to be named by the librarian, and any term of extension will be fixed jointly by the librarian and the dean of the Graduate College.

**Final Examination.** After the thesis of the candidate has been accepted by the examining committee, he must pass a public examination in the subjects offered for his degree. This examination is held before an examining committee of not less than three members, including the professors in charge of the major and minor subjects, supplemented if necessary by appointment from the graduate faculty.

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Candidacy for the degree of Master of Arts can in no case be completed in less than a year of resident graduate study.\* On completion of this study, the candidate must pass a public examination, and present an acceptable thesis, based upon some topic connected with his major subject.

**Examination.** After finishing his studies, each candidate must pass a public examination in the subjects offered for the Master's degree. By concession, a student unable to complete his candidacy in a single residence at the University may be examined in his major and minor studies separately, on completion of either. The examination is conducted by a committee composed of the professors in charge of the major and minor subjects, and some member of the Graduate Council. If but a single subject is offered, an additional examiner is appointed from the Graduate Faculty.

**Thesis.** Each candidate for the degree of Master of Arts must present a thesis embodying, in connection with his major subject, the results of research, of the scholarly treatment of some topic. It must be typewritten, paged, and bound according to a form prescribed, which may be seen in the library of the University. It must be submitted for examination at least two weeks before the intended graduation of the candidate. After being approved and accepted, the thesis becomes the property of the University and is placed on file in the University library.

#### FELLOWS AND SCHOLARS

Fellowships are awarded to candidates for higher degrees who present evidence of high attainments, and who have completed at least a year of

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\*By concession, approved students may be accounted to have fulfilled the requirement of residence by completion of eighteen hours of work registered for in Summer Sessions of the University.

approved graduate study. Compensation for services by instruction or otherwise does not exceed \$400 a year. Scholarships are awarded to candidates for higher degrees on evidence of high attainments in undergraduate study. The compensation is not to exceed \$250. Semestral fees are remitted to fellows and scholars who give instruction or have laboratory supervision. All applications from candidates for fellowships or scholarships must be entered before March 1.

### THE GRADUATE CLUB

The Graduate Club aims to promote good fellowship, scientific interest, and breadth of view among the graduate students of the University. Any student registered for graduate work may become a member. The chancellor and all persons giving graduate instruction in the college are members by courtesy. The club meets at least thrice a year to transact business and to listen to papers on scientific subjects. These papers aim to present in comparatively untechnical form the results of research.

### THE UNIVERSITY STUDIES

The University publishes quarterly *The University Studies*, containing contributions by members of the faculty and at least portions of such doctors' dissertations as are regarded as especially worthy of publication therein.

### COURSES OF INSTRUCTION

The courses of instruction for the Graduate College, the College of Arts and Sciences, and the Teachers College are grouped together, on later pages of this catalog, under the heading, "Courses of Instruction."

# The College of Arts and Sciences

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OFFICERS OF ADMINISTRATION AND INSTRUCTION

---

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

\*PHILIP JOHN HARRISON, A. B., Registrar and University Publisher.

---

ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences and Head Professor of Mathematics. Administration Hall 104.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany, and Head Dean of the Colleges.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Head Professor of the English Language and Literature.

CHARLES FORDYCE, Ph. D., Head Professor of Educational Theory and Practice and Dean of the Teachers College.

ROBERT HENRY WOLCOTT, A. M., M. D., Head Professor of Zoology and Acting Dean of the College of Medicine.

GROVE ETTINGER BARBER, A. M., Head Professor of Roman History and Literature.

HOWARD WALTER CALDWELL, A. M., Head Professor of American History.

LAWRENCE BRUNER, B. Sc., Head Professor of Entomology and Botanist of the Experiment Station.

LAURENCE FOSSLER, A. M., Head Professor of the Germanic Languages and Literatures.

JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and Literature.

ERWIN HINCKLEY BARBOUR, Ph. D., Head Professor of Geology, and Curator of the University Museum.

FRED MORROW FLING, Ph. D., Head Professor of European History.

WILLIAM GEORGE LANGWORTHY TAYLOR, A. B., LL. B., Professor Emeritus of Political Economy and Commerce.

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\*Resigned.

- GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor of Education.
- GEORGE ELLIOTT HOWARD, Ph. D., Head Professor of Political Science and Sociology.
- PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.
- HARRY KIRKE WOLFE, Ph. D., Head Professor of Philosophy.
- GEORGE EDWARD LE ROSSIGNOL, Ph. D., Head Professor of Political Economy and Commerce.
- GOODWIN DE LOSS SWEZEY, A. M., Professor of Astronomy.
- RAYMOND GUSTAVUS CLAPP, Ph. D., M. D., Professor of Physical Education and Director of Athletics.
- CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures.
- MILLER MOORE FOGG, A. M., Professor of Rhetoric.
- EDGAR LENDERSON HINMAN, Ph. D., Professor of Logic and Metaphysics.
- CLARENCE AURELIUS SKINNER, Ph. D., Professor of Physics.
- GEORGE EVERETT CONDRA, Ph. D., Professor of Geography and Economic Geology.
- EDWIN MAXEY, D. C. L., Ph. M., Professor of Public Law and Diplomacy.
- ALBERT LUTHER CANDY, Ph. D., Professor of Pure Mathematics.
- WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts.
- BURTON EVANS MOORE, Ph. D., Professor of Physics.
- PAUL HENRY GRUMMANN, A. M., Professor of Modern German Literature.
- HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.
- HUTTON WEBSTER, Ph. D., Professor of Social Anthropology.
- CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics.
- \*BENTON DALES, Ph. D., Professor of Chemistry.
- AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.
- HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy.
- JASPER LEONIDAS McBRIEN, A. M., Director of University Extension Work.
- JOHN EDWIN ALMY, Ph. D., Professor of Experimental Physics.
- WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.

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\*In charge of the Department of Chemistry.

- GEORGE OLIEŃ VIRTUE, Ph. D., Professor of Political Economy and Public Finance.
- HALSEY EDWARD YATES, Captain of Inf., U. S. A., Professor of Military Science and Tactics.
- ALICE BAIRD ENSIGN, A. B., Adviser to Women.
- JOSEPH HORACE POWERS, Ph. D., Professor of General and Experimental Zoology.
- FREDERICK AMES STUFF, A. M., Professor of the English Language and Literature.
- REV. DEAN R. LELAND, A. M., Chaplain of University Cadets.
- GEORGE ANDREW LOVELAND, A. M., L L B., Associate Professor of Meteorology, and Observer United States Weather Bureau.
- LOUISE POUND, Ph. D., Associate Professor of the English Language and Literature.
- \*CHARLES WILLIAM WALLACE, Ph. D., Associate Professor of the English Language and Literature.
- LUCILE EAVES, M. Sc., Ph. D., Associate Professor of Practical Sociology.
- GUERNSEY JONES, Ph. D., Associate Professor of American History.
- CLARK EDMUND PERSINGER, A. M., Associate Professor of American History.
- FRANKLIN DAVIS BARKER, Ph. D., Associate Professor of Zoology.
- WILLIAM CHARLES BRENKE, Ph. D., M. Sc., Associate Professor of Mathematics.
- LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political Science.
- PHILO MELVIN BUCK, Jr., A. M., Associate Professor of Rhetoric.
- RAYMOND JOHN POOL, A. M., Associate Professor of Botany and Curator of the Herbarium.
- MYRON HARMON SWENK, A. M., Associate Professor of Entomology.
- OLENUS LEE SPONSLER, A. B., Associate Professor of Forestry, in charge of the department.
- FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- AMANDA HENRIETTA HEPPNER, A. M., Assistant Professor of the Germanic Languages and Literatures.
- †CHARLES M. HECK, A. M., Assistant Professor of Physics.
- ELDA REMA WALKER, Ph. D., Assistant Professor of Botany.

\*On leave of absence.

†Resigned.

NELS AUGUST BENGSTON, A. M., Assistant Professor of Geography and Economic Geology.

ANDREW D. SCHRAG, Ph. D., Assistant Professor of German.

JULIA KORSMAYER, A. M., Assistant Professor of the Romance Languages and Literatures.

SHERLOCK BRONSON GASS, A. B., Ph. B., Assistant Professor of Rhetoric.

EWALD ORTWIN STIEHM, A. B., Assistant Professor of Athletics.

HARRIETT ALICE HOWELL, A. M., Adjunct Professor of Elocution.

LAURA BELLE PFEIFFER, A. M., Adjunct Professor of European History.

CARRIE BELLE RAYMOND, Director of Music.

MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry.

ALICE CUSHMAN HUNTER, Ph. D., Adjunct Professor of Roman History and Literature.

GEORGE BORROWMAN, A. M., Adjunct Professor of Chemistry.

MILTON D. BAUMGARTNER, A. M., Adjunct Professor of German.

SARA SHEWELL HAYDEN, Adjunct Professor of Technique of Fine Arts, and Director of School of Fine Arts.

SARKA HRBKOVÁ, A. B., Adjunct Professor of Slavonic Languages.

GEORGE ASBURY STEPHENS, Ph. D., Adjunct Professor of Political Economy.

INA ESTELLE GITTINGS, A. B., Adjunct Professor of Physical Education and Director of Women's Gymnasium.

FRANCIS J. PERUSSE, Ph. C., Adjunct Professor of Pharmacology.

LEVA BELLE WALKER, A. M., Adjunct Professor of Plant Pathology.

ADDISON ERWIN SHELDON, A. M., Lecturer in Political Science.

JOHN MARTIN CHOWINS, Expert Mechanician, Department of Physics.

BERTRAM JOHN SPENCER, Demonstrator and Teacher of Construction in Physics.

HENRIETTA McELROY BROCK, Instructor in China Painting.

MAY CHAMBERLAIN, A. M., Instructor in the Germanic Languages and Literatures.

AUGUST HAGENOW, Instructor of the Band.

MARGUERITE CAMERON MCPHEE, A. M., Instructor in Rhetoric.

HENRY T. JOHNSON, B. Sc., Instructor in Mathematics.

ELIZABETH IRENE REESE, A. M., Instructor in Romance Languages and Literatures.

DAISY JEANNETE NEEDHAM, A. M., Instructor in European History.

CLARENCE JACKSON FRANKFORTER, A. M., Instructor in Chemistry.

\*CLARENCE EMERSON, Ph. D., Instructor in Bacteriology and Pathology.

MINNIE THROOP ENGLAND, Ph. D., Instructor in Political Economy.

LULU L. RUNGE, A. M., Instructor in Mathematics.

JOSEPH ALEXIS, A. M., Instructor in Swedish and German in Germanic Languages.

ELIZABETH RUTH BENNETT, Ph. D., Instructor in Mathematics.

VICTOR NELSON VALGREN, A. B., Instructor in Political Economy, 1910-1911.

IRVING SAMUEL CUTTER, B. Sc., M. D., Instructor in Chemistry.

JESSIE BEGHTOL, A. B., Instructor in Physical Education.

ROBERT D. SCOTT, A. M., Instructor in English Language and Literature.

HAROLD EDGAR McCOMB, A. M., Instructor in Physics, 1910-1911.

ELSIE DAY, A. B., Ph. G., Instructor in Pharmacognosy.

WALTER LEONARD ALBIN, M. D., Instructor in Pathology.

MARY CATHERINE GRAHAM, A. B., Assistant Instructor in Chemistry.

CARRIE ADELINE BARBOUR, B. Sc., Assistant Curator of the University Museum.

ERVIN FILMORE WILSON, B. Sc., Assistant Instructor in Chemistry.

#### Fellows, Scholars and Graduate Assistants

SELMA S. ANDERSON, A. B., Fellow in Greek.

SAMUEL COOPERSMITH, A. B., Fellow in Zoology.

VIOLA FLORENCE BARNS, A. M., Fellow in English Language and Literature.

MARGARET LOUISE HANNAH, A. B., Fellow in Botany.

HELMA LOU HOLMES, A. B., Fellow in Mathematics.

HARVEY MELANCHTHON JOHNSTONE, A. M., Fellow in Philosophy.

ADA M. JONES, Fellow in Romance Languages.

JOHN FREDERICK KRUEGER, A. M., Fellow in Political Science.

DOROTHEA MAYLAND, Fellow in German.

FRANCIS JOHN PIPAL, A. B., Fellow in Botany.

JENNIE LOUISE PIPER, A. B., Fellow in American History.

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\*Resigned.

- ECK FRANK SCHRAMM, A. M., Fellow in Geology.
- CARRIE M. STETLER, A. B., Fellow in American History.
- EMMA J. SWEZEY, A. B., Fellow in Romance Languages.
- CONSTANCE MIRIAM SYFORD, A. B., Fellow in English Language and Literature.
- PAUL D. FOOTE, A. B., Graduate Assistant in Physics.
- LEWIS BERTIE OLMSTEAD, B. Sc., Assistant in Physics.
- RUTH MARY BATES, A. B., Scholar in Botany.
- EDITH ANITA GRIMM, A. B., Scholar in Latin.
- RAYMOND H. KENDRICK, B. Sc., Scholar in American History.
- \*DALE LAPP, A. B., Scholar in Botany.
- BERTHA MUSSON LUCKEY, A. B., Scholar in Philosophy.
- EDGAR MATTHIAS MEDLAR, B. Sc., Scholar in Zoology.
- CLAUDE WILLIAM MITCHELL, A. B., Scholar in Zoology.
- ESTELLE MORRISON, Scholar in Rhetoric.
- ERIC VON NUSBAUM, Scholar in Political Science.
- ALLISON PETIT, Scholar in Astronomy.
- NELLIE ANTOINETTE VAIL, A. B., Scholar in Botany.
- CLIFFORD WEBB WELLS, Ph. B., Scholar in Histology.
- THEODORE H. BIERNAN, Assistant in Political Economy.
- CHARLES WESLEY BECKER, Storekeeper in the department of Zoology.
- LELAND JAYNES BOARDMAN, A. B., Assistant in Physics.
- SEARL S. DAVIS, A. B., Assistant in Rhetoric.
- ERNEST HERMAN HAHNE, Assistant in Political Economy.
- BERNARD CLIFFORD HENDRICKS, B. Sc., Assistant in Chemistry.
- EARL GEORGE JOHNSON, A. B., Assistant in Physiology.
- JOHANNA PAULINE DORTHEA KRUEGER, Assistant in German.
- GEORGE PAUL LUCKEY, A. B., Assistant in Physics.
- SARAH LOUISE PHELPS, A. B., Assistant in German.
- ARNE KRISTOPHER PEITERSON, Assistant in Botany.
- JOHN CLARENCE RESLER, B. Sc., Assistant in Physics.
- JOHN TORRENCE TATE, B. Sc., Assistant in Physics.
- EDITH LEONA WEBSTER, A. B., Assistant in Geology.
- \*WILLIAM THOMAS WOLVINGTON, Storekeeper in the department of Zoology.

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\*Resigned.

**Standing Committees**

Course of Study—Professors Fossler (chairman), Skinner, Wolfe, Lees, Frye, Le Rossignol, Stuff, Barker, Brenke.

Advanced Standing—Professors Lees (chairman), Fling, Dales, Condra, Candy.

Assignment to Recitations and Laboratories—Professors Engberg (chairman), Almy, Barker, Baumgartner, Bengtson, Borrowman, Gass, Johnson, Pool, Schrag, Stephens, Persinger.

### THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the oldest of the colleges of the University. It offers four years of undergraduate instruction leading to the degree of Bachelor of Arts or of Bachelor of Science. Its chief object is a liberal education, but by a system of "advisers" and "major subjects" it permits of vocational specialization, especially in junior and senior years. In addition, students desiring to combine a liberal arts course with the technical one of law, medicine, or engineering, are offered six-year combined academic and professional or technical groups of study leading to the degree of bachelor of arts or of bachelor of science at the end of four or five years and to the degree of bachelor of law, doctor of medicine, or bachelor of science in engineering at the end of the sixth year.

#### ADMISSION TO THE COLLEGE OF ARTS AND SCIENCES

**Entrance Credits.** For admission to the freshman year of the College of Arts and Sciences, a student must present 30 high school entrance credits or "points."\* Conditional admission is permitted on a minimum of 24 credits or "points."

Entrance credit, in addition to that presented when admission is granted, to be accepted must be submitted within one year from date of matriculation.

**Entrance Subjects (17 points).** The 30 points required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

	Subjects	Required Points (17)	Elective Points (13)
1. English † . . . . .		4	1 or 2
2. History †			
American . . . . .			1 or 2
European . . . . .		2	1 or 2

\*An entrance credit or "point" is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses a credit "point" is given for three recitations and two double periods of laboratory work (under the supervision of a competent instructor) each week for at least eighteen weeks. In laboratory courses without recitation, a credit point is the equivalent of fifteen single periods each week. One credit point is equal to four university credit hours.

†1. English: A few of the strongest accredited high schools may, by special action of the Committee on Accredited Schools, be granted two additional elective points, in each of these groups.

Subjects	Required Points (17)	Elective Points (13)
3. Language (Ancient, Modern)*.....	6	2 to 8
4. Mathematics†		
Algebra.....	3	
Geometry (Plane).....	2 (Solid) 1	
Trigonometry.....	1	
5. Science‡		
Agriculture.....	1	
Botany.....	1 or 2	
Chemistry.....	1 or 2	
Physics.....	2	
Physical Geography .....	1	
Zoology.....	1 or 2	
Other subjects taught in an approved manner in an accredited secondary school. (one each)....	6	

**Entrance from Accredited Schools.** Graduates from "accredited" secondary schools (see p. 31) are admitted to the College of Arts and Sciences without entrance examinations in duly certified subjects. All others must be prepared to take entrance examinations in subjects in which they desire entrance credits.

**Advanced Standing.** Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-

\*3. Language: Four of the six points required must be in Latin to enter the College of Arts and Sciences, and the College of Medicine (for entrance to the other colleges of the University any foreign language may be offered to meet the requirement). The Committee on Accredited Schools may accept German or French to meet the required six points in foreign language, in the case of specially approved accredited schools, for entrance to any College except that of Medicine.

The maximum is eight points in any one language.

†4. Mathematics: Three points in Geometry should be offered for entrance to the six-year combined academic-engineering course.

‡5. Science: Two points in Physics and two points in chemistry should be offered for the six-year combined academic-Medical course or for the six-year combined academic-engineering course.

fourths of the credits required for graduation from the University. Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regularly organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless, in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

**Adult Special Students.** Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the general colleges as Adult Special Students under such conditions as shall be deemed wise in each individual case. Adult Special Students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special Student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special Student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special Students as well as to candidates for degrees. Students in the School of Fine Arts and teachers in the city schools may be

admitted as Adult Special Students. Such candidates are required to offer satisfactory proof that they are prepared to do the work for which they wish to register.

**Registration.** Registration in the College of Arts and Sciences takes place during the first five days of each semester, from 9 a.m., Tuesday, to 5 p.m., Saturday. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days.\* A like fee of \$3.00 is charged for re-registration when made necessary by the students' fault; any change whatever in a registration once made being regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student may make such a change without written permission to the Registrar from the dean of each college concerned. No student is allowed to drop any study for which he has been regularly registered, except by written permission from the dean of the college. No first-year student may register for more than 16 credit hours except with written consent of the dean, and then for a maximum of 18 hours. Second to fourth year students may register for 18 credit hours when their work has averaged at least 80 per cent the previous year. No first or second-year student may register for more than one one-hour course (in addition to drill or physical education) in any one semester; and no third or fourth year student may register for more than two such courses in any one semester. A student cannot attend a class for which he is not registered, and no credit is granted for studies pursued without registration.

**Fees.** All fees must be paid to the Secretary of the University at the time of registration. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a course or from the University. The following fees are required of students in the College of Arts and Sciences:

Matriculation (on first registration only) . . . . .	\$5.00
Being a statutory one, this fee cannot be refunded except when collected in error. It is also charged any student changing membership from one college to another.	
Non-resident tuition, each semester . . . . .	15.00

\*Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage.

*Incidental, each semester . . . . .	\$3.00
†Library, each semester . . . . .	1.00
‡Military, for the year . . . . .	1.00
Diploma, on graduation . . . . .	5.00
Special:	
Re-registration (including change in registration) . . . . .	3.00
Late registration (after registration days) . . . . .	3.00
Examination, each subject . . . . .	1.00
Diploma, for degree taken <i>in absentia</i> , additional . . . . .	10.00

**Laboratory Fees.** In addition to the foregoing general or miscellaneous fees, each student is required to pay the laboratory fee indicated below for each subject in which he is registered for laboratory work. These fees do not cover careless waste, breakage, or injury to apparatus. In any such case the student is required, upon notice by the department concerned, to pay the amount of such waste or damage at the secretary's office, and to present his receipt therefor to the department before his semestral credit is reported to the Registrar.

Anatomy—Courses 15, 16, \$15.

Bacteriology and Pathology—Course 1, \$8; course 2, \$10; courses 3, 4, \$4.

Botany—Courses 1, 2, 15, 16, 21, 22, 25, 35, 36, 37, \$2; courses 3, 4, 5, 6, 19, 20, 23, 24, \$3; courses 13, 14, 31, 32, 33, \$1; courses B, 39, 40, 41, 42, 43, 44, 47, 48, 49, 50, for each credit hour a semester, \$1; course A, \$4.

Chemistry—Courses A, B, 1, 2, 20, 21, 22, 34, \$5; courses 5, 15, 16, 23, 27, 41, \$2; courses D, 1 and 2 combined, 3, \$10; course 14, \$8; courses 7, 8, 23a, 39, 40, for each credit hour a semester, \$1.

Entomology—Courses 1, 2, 3, 4, 5, 6, 7, 8, \$2; 4a, \$3; 10, 11, 13, \$1.

Geography and Economic Geology—Courses 1, 2, 5, 7, 8, 21, 22, 25, 26, 28, \$1.

Geology—Courses 1, 2, 13, 18, \$1; courses 15, 16, \$2.

Pharmacology—Courses 5, 6, \$3.

Philosophy—Course 1, \$1.

Physics—Courses 1, 2, 3, 4, 6, 7, 8, 15, 16, \$4; courses 1a, 2a, 3a, 4a, \$1; courses 1b, 2b, 3b, 4b, \$3.

Physiology—Courses 1, 2, \$5; course 12, \$9; course 13, \$6.

\*In the six-year combined academic and professional or technical groups (law, medicine and engineering), this fee is charged until such time as the candidate obtains his academic degree.

†No student paying a laboratory fee is required to pay this fee for the same semester.

‡This fee is collected to assist in defraying the cost of wear and tear of equipment loaned to the University by the U. S. government, and to cover the expenses incidental to the care thereof.

If property of value is lost or damaged, the student responsible will be required to pay for the same.

Zoology—Courses 1, 2, 7, 12, 14, 15, \$2; course 3, \$3; courses A, 6, \$4; course 9, \$6; course 10, for each credit hour a semester, \$2; courses A, 11, 12, \$4; courses 21, 22, 31, 36, \$1; courses 9, 10, 15, 17, 18, 25, 26, 27, 28, 43, for each credit hour a semester, \$1.

Histology and Embryology—Course 1, \$4 to \$6 (according to credit); courses 2, 13, \$3 to \$6 (according to credit); courses 11, 15, \$2; course 12, \$4; course 14, \$3.

Fees in courses chosen as "electives" from "Courses of Instruction" in another college are named in the exhibits of that college.

### REQUIREMENTS FOR GRADUATION

**University Credits (125 hours).** For the degree of Bachelor of Arts or of Bachelor of Science, 125 University credit hours\* are required. No student is recommended for a degree who is not within eighteen hours of this requirement at the beginning of his last semester.

No student is permitted to be a candidate for more than one degree at a time. Not more than one degree can be conferred upon any student on any commencement day. A graduate holding the degree of Bachelor of Arts may receive the degree of Bachelor of Science by an additional year of work (30 hours), two-thirds of which must be given to a major in Exact Science, Physical Science, or Biological Science. A graduate holding the degree of Bachelor of Science may receive the degree of Bachelor of Arts by an additional year of work (30 hours), two-thirds of which must be given to a major in the Mother Tongue, Classics, Modern Language, History, Philosophy or Economics.

**Required Subjects (8 hours).** Each candidate for graduation from the College of Arts and Sciences is absolutely required to complete the following subjects:

	Hours
Rhetoric (courses 1 and 2).....	4
† Military Science (men) or Physical Education (women).....	4

\*A course receives one hour of credit for each one-hour recitation or lecture which presupposes two hours of preparation or for the equivalent of a three-hour laboratory period during each of the eighteen weeks of a semester.

†Only credibly attested physical disability, or conscientious scruples (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved by the Chancellor, each undergraduate man or woman must fulfill this requirement during the freshman and sophomore years, or begin the work immediately upon matriculation. A failure to take military science or physical education during the required semester, unless reprieved in writing, increases the requirement one semester for

**Optional Subjects (40 to 48 hours).** In addition to the above, each candidate for the bachelor's degree is required to complete six out of the following eight groups of subjects, in the amount indicated, before the end of his third year; the two groups omitted cannot be in the same division (A, B, or C):\*

	Hours
(1) The Mother Tongue. ....	6
<b>A</b> (2) The Classics (Greek or Latin). ....	10
(3) Modern Language (other than English)....	10
 <b>B</b> (4) History or Sociology † . ....	6
(5) Philosophy or Economics †.....	6
 (6) Exact Science (Astronomy, Mathematics).....	10
<b>C</b> (7) Physical Science (Chemistry or Physics). ....	6
(8) Biology (Botany or Zoology)....	6

**Specialization (24 to 40 hours).** Not later than the beginning of his second or sophomore year, each student in the College of Arts and Sciences must select some one department in which he is to take a "major" of not less than 24 nor more than 40 hours.‡

**Grades.** From September 1, 1910, not more than 20 per cent of the student's further work below a grade of 70 per cent is credited on requirements for graduation.

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each failure. A reprieve does not abridge or otherwise modify a student's requirement in military science or physical education save to defer the period for discharging it; and no reprieved person leaving the University without having discharged this requirement can claim honorable dismissal. A student excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degree sought. Thorough drill or physical education elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of either subject at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

\*A subject from the groups taken in the student's first semester shall be continued in his second semester.

†Students intending to enter the Teachers College in the junior year should note that History alone fulfills the requirement in group 4, while in group 5 Sociology substitutes Philosophy which is a professional requirement.

‡A student may register in the six-year combined Academic-law course in his senior year and elect not more than 24 hours in the College of Law as his major. (See the announcement of the College of Law.)

**In Absentia Credit.** All *in absentia* students must register the same as other students. For each credit hour granted, *in absentia* students (except in the department of University Extension) are required to perform the equivalent of 72 hours of actual work (this being one-third more than is required of students in residence) under the direction of a professor in the department chosen. Credit for *in absentia* work is granted only by a committee of three appointed by the senior dean, the chairman of the committee being the professor whose subject is immediately concerned. This committee examines the work of the *in absentia* student and makes a written report, to the Registrar, together with a statement of the amount of credit to be granted.

**Bachelor of Science Degree.** Any student in the College of Arts and Sciences who majors in a scientific department and, of the 125 hours required for graduation, completes not less than sixty hours in mathematics and natural science may take the degree of Bachelor of Science instead of the degree of Bachelor of Arts.\* Such students, however, shall complete six of the eight groups (A, B, or C).

**Advisers.** At the time of his first registration each freshman student in the College of Arts and Sciences is assigned to some member of the faculty who becomes his adviser until his major subject is chosen. On the choice of a "major" department at the beginning of the second year, the head of the department thus chosen becomes the student's adviser for the remainder of his college course. No schedule of subjects or hours is valid for registration without the signature of the student's adviser. The dean of the college acts as a head adviser for all students within the college, and the adviser to women as a special adviser to all women students.

### COURSES OF INSTRUCTION

The courses of instruction for the Graduate College and the College of Arts and Sciences are grouped together, on later pages of this catalog, under the heading "Courses of Instruction." See, also, "Courses of Instruction" in the exhibits of other colleges.

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\*Students registered in the course formerly designated "General Scientific" may receive the degree of Bachelor of Science upon the completion of the requirements previously obtaining. Students who desire to receive the degree of Bachelor of Science in preparation for a course in medicine should consult the six-year combined academic-medical course given in the announcement of the College of Medicine.

# The Teachers College

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OFFICERS OF ADMINISTRATION AND INSTRUCTION

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SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

\*PHILIP JOHN HARRISON, A. B., Registrar and University Publisher.

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CHARLES FORDYCE, Ph. D., Dean of the Teachers College and Head Professor of Educational Theory and Practice.

GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor of Education.

HARRY KIRKE WOLFE, Ph. D., Head Professor of Philosophy. In charge of instruction in Educational Psychology.

ALBERT ALISON REED, A. B., Inspector of Accredited Schools, Professor of Secondary Education.

†ALBERT EUGENE DAVISSON, A. B., Head Professor of Agricultural Education, Principal of the School of Agriculture.

FREDERICK MAURICE HUNTER, A. B., Professor of Secondary Agricultural Education and Principal of the School of Agriculture.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Head Professor of the English Language and Literature and Dean of the Graduate College.

ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics and Dean of the College of Arts and Sciences.

ROBERT HENRY WOLCOTT, A. M., M. D., Head Professor of Zoology and Acting Dean of the College of Medicine.

GROVE ETTINGER BARBER, A. M., Head Professor of Roman History and Literature.

‡HOWARD WALTER CALDWELL, A. M., Head Professor of American History.

LAURENCE FOSSLER, A. M., Head Professor of the Germanic Languages and Literatures.

JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and Literature.

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\*Resigned.

†Deceased.

‡Leave of Absence, 1911-1912.

- FRED MORROW FLING, Ph. D., Head Professor of European History.  
PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.  
RAYMOND GUSTAVUS CLAPP, Ph. B., Professor of Physical Education and Director of Athletics.  
CLARA CONKLIN, A. M., Professor of the Romance Languages and Literatures.  
GEORGE EVERETT CONDRA, Ph. D., Professor of Geography and Economic Geology.  
ROSA BOUTON, A. M., Professor of Home Economics.  
BENTON DALES, Ph. D., Professor of Analytical Chemistry, in charge of the Department of Chemistry.  
JASPER LEONIDAS McBRIEN, A. M., Director of University Extension.  
ALICE BAIRD ENSIGN, A. B., Adviser to Women.  
HERBERT BROWNELL, B. Sc., Professor of the Theory and Practice of Teaching the Physical Sciences.  
FREDERICK AMES STUFF, A. M., Professor of the English Language and Literature.  
CLARK EDMUND PERSINGER, A. M., Associate Professor of American History.  
HARRIET ALICE HOWELL, A. M., Adjunct Professor of Elocution.  
INA ESTELLE GITTINGS, A. B., Adjunct Professor of Physical Education.  
GEORGE CROCKER, B. Sc., Superintendent of the Teachers College High School.  
ANNA MAY TIBBETS, A. M., Principal of the Teachers College High School.
- Supervisors and Assistants in the Teachers Training School.**
- CORA BELLE HILL, A. B., Supervisor of Mathematics.  
DOROTHY MAYLAND, A. B., Supervisor of German.  
JENNIE LOUISE PIPER, A. B., Supervisor of American History.  
WILLIAM LUTHER FRENCH, B. Sc., Adjunct Professor of Dairy Husbandry, Supervisor of Agriculture.  
HARRIET FOLGER, B. Sc., Associate Professor of Home Economics, Supervisor of Home Economics.  
ARTHUR JULIUS WICKLAND, Supervisor of Music.  
MABEL CLARE METCALF, Assistant in Botany.  
DONEE GRIFFITH, Assistant in Geography.  
WALTER ROBERT POWER, Assistant in the Assembly Hall.  
GEORGIA BALDWIN FIELD, A. B., Reader in Educational Theory and Practice.

**Fellows in Education.**

EMMA WILHELMSON, A. B.

WINNIFRED OLTA WOLGAMOT, A. B.

**Standing Committees**Course of Study—Professors Fossler (Chairman), Lees, Skinner, Wolfe,  
Le Rossignol, Frye, Stuff, Brenke, Barker.

Schedule—Professors Luckey, Conklin, Wolcott, Brownell, the Registrar.

Advanced Standing—Professors Lees, Condra, Candy, Fling, Dales.

Teachers' Certificates—The Chancellor, Professors Bessey, Davis, Fordyce,  
Luckey, Reed, Wolfe, the Registrar (secretary).

Credits on University Teachers' Certificates—Dean Fordyce, the Registrar.

Bureau of Recommendation of Teachers—Dean Fordyce, Professors Bar-  
ber, Persinger, Reed, Wolfe.

Nominations—The Chancellor, the Dean.

### THE TEACHERS COLLEGE

On February 14, 1908, the Board of Regents erected the University Department of Education into a Teachers College. This action was confirmed by an act of the state legislature in 1909.

The aim of this college is, while dealing with the history, theory and practice of teaching generally, to improve the quality of secondary teaching in particular, and to provide thoroughly prepared teachers for the secondary schools. The Teachers College aims to provide for the following classes of students:

(1) Well advanced and ambitious teachers wishing preparation for school superintendencies or professorships in colleges or normal schools. They may or may not wish the University Teachers' Certificate, may or may not care to work for advanced degrees.

(2) College students intending to teach, who wish the Bachelor's degree with the University Teachers' Certificate. Such candidates register in this college in the Junior year, specializing in education, and proceed as laid down under "Requirements for Graduation." The requirements for the Certificate are found under the caption "University Teachers' Certificate" on a later page.

(3) Men and women of college grade who design to teach agriculture in high or normal schools. For these a solid one-year course is provided (see below), parts of which may, however, under advice, by such as so desire, be used with the more general studies toward a degree.

(4) Men and women not necessarily possessing so high attainments who call for preparation to teach agriculture in grade or rural schools. The Dean will arrange a year of work carefully adapted to the wants of these.

(5) Persons preparing to teach special branches, such as physical or manual training, home economics, and so on. See the special one-year curricula listed below.

(6) Mature teachers in any department wishing by a longer or shorter period at the University to review studies, familiarize themselves with new methods, or master new branches. Such teachers should consult the Dean. They will find a year or even a semester of properly chosen work of great value.

The Dean of the Teachers College is also ex-officio head of the Bureau on Recommendation of Teachers. The direction of this Bureau, the inspection of accredited high schools, and the editorship of the University Journal are functions of the Teachers College. This college is also charged with the study of developing the work of instruction in agricultural peda-

gogy made possible by the so-called "Nelson Amendment" which became law at the end of the 59th congress. The Teachers College High School and the School of Agriculture serve as model secondary schools to the Teachers College.

#### ADMISSION TO THE TEACHERS COLLEGE

Candidates for admission to the Teachers College must have completed and have credit for the first two years of collegiate work. This credit must be preceded by the pre-collegiate preparation (30 points\*) afforded by a four years' course in an accredited high school.

**Advanced Standing.** Applicants from other institutions of approved standing who offer collegiate courses or professional courses in excess of the requirements for admission, will be assigned such advanced standing as may be determined by the Committee on Advanced Standing.

**Adult Special Students.** Persons of proper age may be permitted to register unclassed on the same conditions as in the College of Arts and Sciences.†

**Registration.** Students register in this college in the Junior year, at the same time retaining identity in another college of the University which grants the degree of Bachelor of Arts or of Science simultaneously with the granting of the University Teachers' Diploma and the University Teachers' Certificate by the Teachers College. Thus throughout the Junior and Senior years the student is registered in two colleges.

Registration in the Teachers College takes place on the same days and under the same conditions as in the College of Arts and Sciences.†

**Advisers.** The Dean of the college is the general adviser for students in this college. The board of advisers in this college consists of the Dean and members of the faculty. The general system accords with the plan obtaining in the College of Arts and Sciences.‡ All candidates for the Diploma and for the University Teachers' Certificate consult the Dean before registering, that the grouping and correlation of their studies may be properly fixed. Special information concerning majors and minors in which the candidate wishes to specialize may be obtained from the heads of the departments concerned.

**Fees** in the Teachers College are the same as those in the College of Arts and Sciences, except that graduates taking the University Teachers' Certificate are charged an additional certificate fee of \$2.00, and that students on first entering from a college of the University are not required to pay the matriculation fee.

\*For the definition of a credit "point," see page 65.

†See page 67.

‡See page 72.

### REQUIREMENTS FOR GRADUATION.

**University Credits (62 hours.)** Of the 125 University credit hours\* required for the degree of Bachelor of Arts or of Bachelor of Science, 62 credit hours shall be in the Teachers College.

The candidate is enrolled at the same time in the Teachers College and in the college in which the major academic work for his degree is sought, being subject to the faculty of the latter college for his academic course and to the former for his professional. He must complete the required subjects in the college in which he takes his degree and, as optional subjects, the professional requirements of the Teachers College.

No student is recommended for a degree who, at the beginning of his last semester, is not within eighteen of the 125 hours required for graduation.

**College Professional Requirements.** Each candidate for graduation from the Teachers College is absolutely required to complete the following professional subjects in addition to those required in the college which grants the bachelor's degree.

	Hours
Psychology.....	6
Education (professional or technical work).....	15
Major and Minor subjects (specialization).....	40

The professional courses should be taken in the following sequence: Psychology and History of Education in the Junior year, Child Study in the Senior year or in the last half of the Junior year, Educational Theory and Practice in the Senior year.

No major subject may be less than 16 hours, and no minor subject less than 12 hours. The 40 hours may be divided between two majors or one major and two minors. Major and minor subjects should be closely allied.

■ **Departmental Requirements** for major and minor recommendations for the University Teachers' Certificate may be found at the beginning of departmental exhibits under "Courses of Instruction."

**Residence.** At least one years' resident work is required of all candidates for graduation from the Teachers College.

### TEACHERS COLLEGE DIPLOMA

The completion of the two years' professional curriculum leads to the University Teachers Diploma, a document showing graduation from the Teachers College and naming the major subjects for which the candidate is prepared to teach.

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\*See foot note (\*), page 70.

### PROFESSIONAL DEGREE

The Teachers College offers no undergraduate degree but on the completion of an approved three years' professional curriculum, beginning with the junior academic year and extending one year into graduate work, the candidate receives the degree of Master of Arts in Education.

This college thus offers a professional course designed for students of superior scholarship and for experienced teachers who wish to make such a study of the more scientific aspects of educational problems as will especially fit them for the duties of superintendents, principals, supervisors, and departmental teachers of our best public schools.

### THE UNIVERSITY TEACHERS' CERTIFICATE

**The University Teachers' Certificate** is granted only to students registered in the Teachers College and only to those who (1) maintain an average of at least eighty (80) per cent. in their undergraduate work, and (2) show special fitness for teaching. As indicated in the extract from the Nebraska certification laws quoted below, it entitles its holder to teach in any high school in Nebraska and is valid in many other states; after three years' successful experience in Nebraska it may be converted into a life certificate by the endorsement of the state superintendent.

The special requirements for this certificate are: (1) The candidate must hold the bachelors' or the master's degree from this University. (2) The completion of non-professional or specialized work amounting to at least 40 hours divided between two major subjects or one major and two minor subjects which the student expects to teach, the ultimate decision as to the student's proficiency resting with the departments concerned. No major subject shall be less than 16 hours and no minor subject shall be less than 12 hours. (3) Professional Knowledge—The completion of 15 hours in Education, and 6 hours in Psychology. Among the 15 hours of Education required, the student may elect a two-hour course in special methods in his major subject; such course must, however, meet the approval of the head professor of Educational Theory and Practice.

**Regents' Rules Regarding University Teachers' Certificates.** (1) Each candidate for a teachers' certificate shall submit to the State Superintendent of Public Instruction, for his approval, a detailed report showing the academic and professional preparation of the candidate, including both secondary and collegiate courses, properly authenticated by the Registrar of the University of Nebraska and the Dean of the college in which the student is matriculated. (2) Teachers' certificates issued by the University of Nebraska shall contain a full record showing the amount and the

character of the student's work, secondary and collegiate, as shown by the records of the Registrar's office.

**The Emergency Certificate.** The Emergency Certificate will not be granted as heretofore.

For intending teachers of such technical subjects as Agriculture, Domestic Science (Home Economics), Manual Training, Physical Education, Music, etc., special provision is made, under the new certification laws for supervisors in high schools and in the grades.

**Certification Committee.** All general questions relating to the student's work for the University Teachers' Certificate are under the supervision of the Committee on Teachers' Certificate as named in the standing committees of the Teachers College. Recommendations for the certificate are made to the Faculty of the Teachers College through this committee.

**Bureau on Recommendation of Teachers.** The University maintains a bureau under the direction of a committee, to assist students and graduates in securing positions as teachers and at the same time to aid superintendents and boards of education in providing schools with competent and suitable teaching talent. For information address the secretary of the Bureau on Recommendation of Teachers.

#### NEBRASKA CERTIFICATION LAWS

The laws of the state of Nebraska concerning the certification of teachers contain the following provisions:

**University Professional State Certificate.** "That all graduates of the University of Nebraska holding a degree of bachelor of arts or bachelor of science, and in addition thereto, certificates authorized by the board of regents showing that such graduates have completed the course of instruction prescribed by the regents and faculty of said university, for the special training and instruction of teachers, and such other graduates as hold the same degrees from any college or university duly incorporated under the laws of the state of Nebraska, who, in the judgment of the state superintendent of public instruction, have completed in their respective institutions an equivalent of the courses in the state university, for said degrees prescribed by the regents and faculty of said university, shall be accredited as qualified teachers within the meaning of the school law of this state; and all such graduates shall have equal privileges, upon equal conditions, with graduates from any and all other educational institutions within this state under the school law thereof. Said certificates are hereby declared to be valid as certificates of the first grade to teach in the public schools of the state of Nebraska for a period of three years from their date" (Sec. 1a, subd. IX, S. L. 1905).

**University Life Certificate.** "After three years of actual teaching, the certificates of the graduates of the University of Nebraska, or of any other college or university mentioned or described in section 1a of this act, shall be counter-signed by the state superintendent of public instruction upon satisfactory evidence that the services of the applicant have been successful; Provided, that said counter-signature may be cancelled and its legal effect annulled by the superintendent of public instruction upon satisfactory evidence of disqualification; Provided, further, that such certificates shall be subject to the provisions for lapsing set forth in Section 4, Subdivision 9, of Chapter 79 of the Compiled Statutes of Nebraska for the year 1899" (Sec. 1b, subd. IX, S. L. 1905).

**First Grade County Certificate without examination.** On college graduation, with experience or professional training. "The county superintendent may, at his discretion, grant a first-grade certificate, without examination, to a graduate of a college, university, or state normal school, subject to such rules and regulations as may be prescribed by the state superintendent of public instruction" (Sec. 11, subd. IXa, S. L.—). The following requirements have been prescribed by the state superintendent governing the issuance of this certificate: (1) One year's successful experience in teaching; or (2) Four hours of school management; four hours in general methodology; and four hours in elective work in history of education, child study, school hygiene, educational psychology, or other pedagogical subjects.

**County Certificate, with less than complete examination.** "Graduates who have not had one year's experience or taken the aforesaid twelve hours in professional training will be required to take the regular teachers' examination in reading, arithmetic, grammar, geography, United States history, drawing, orthography, penmanship, mental arithmetic, and theory and art of teaching. Graduates who cannot present a college or university credit in algebra, botany, geometry, physics, agriculture, civics, English composition, bookkeeping and physiology, equal to that required at the University of Nebraska for full entrance to the freshman year in the institution, will be required to take in addition the regular teachers' examination in said subjects."

#### THE TEACHERS COLLEGE HIGH SCHOOL

**The Training School.** The Teachers College Training School is an accredited four-year high school approved by the North Central Association of Colleges and Secondary Schools. It is located in the University Temple and is a distinctive feature of the University Teachers College.

Besides seven large, attractive class rooms and a commodious assembly hall, there are cloak and toilet rooms and ample library and laboratory equipments for a modern school. Here one hundred and twenty-five youths of high school rank are under the direction and tuition of the Head Professor of Educational Theory and Practice, a skillful superintendent and an experienced principal, supervisors and assistant instructors.

**Senior Observation and Practice in the Training School.** The Training School first serves as a model secondary school for instruction according to the most advanced methods, and secondly as a place for the study of practical problems in teaching and school administration. Seniors in the Teachers College are required to observe the conduct of the model school and to make a critical study of its educational aims, values and processes, the results of which are summarized and discussed in the class rooms. When the student has become familiar with the pedagogical work of the class observed he is required to select material and organize subject matter in lessons and assist in instruction; but in no case is a student teacher permitted to instruct in a subject that has not been made by him a major subject in University work.

**Special Training Courses for Teachers.** Several departments in the Teachers College also offer special methods courses in which they parallel their class-room theoretical work with practice work in the Training School. For the year 1911-1912 such work is offered in the following subjects: American History, Chemistry, English Language and Literature, German, Mathematics, Physics, Roman History and Literature. See "Courses of Instruction."

**Lincoln City Schools.** In addition to this model Training School maintained and controlled by the Teachers College, excellent facilities for observation of expert teaching are afforded by the city schools of Lincoln.

A tuition fee of \$12.50 a semester is charged each pupil registered in the Teachers College High School.

#### DEPARTMENTAL METHODS COURSES

Many of the departments of the Teachers College offer special courses giving instruction as to methods of teaching the subject matter peculiar to those departments. With the approval of the head professor of Educational Theory and Practise, two hours of such departmental method work in the student's major subject may be substituted for two hours of the required work in education. Courses of this kind offered for the current year may be found as follows: under "Courses of Instruction;" Agricultural Education 2; American History 12; Botany 33; Chemistry

29; English Language and Literature 29, 30 and 31; European History 45 and 46; Fine Arts 1; Geography 3; German 19; Greek History and Literature 40, 17, 18; Home Economics 13, 14, and 19; Mathematics 9 and 9a; Music 1; Physical Education 17 and 18; Physics 15, 16; Physiology 1 and 2; Pharmacodynamics 5; Rhetoric 32; Roman History and Literature 43 and 44; Romance Language 11 and 12; Zoology 1 and 2, and 36 (Nature Study).

## COURSES OF INSTRUCTION

**General Courses**—The courses of instruction in the Teachers College run parallel in the first two years with those of the College of Arts and Sciences, although the curriculum may include groups from the other colleges according to the election of the candidate. The aim is to give the student a liberal academic training before he begins his technical studies. In order that the candidate for the University Teachers' Certificate may have a proper foundation for the professional subjects of the Junior and Senior years, the academic courses are selective and must follow a definite sequence. In general the courses are broadly educational rather than narrowly so. The exceptions are the subjects purposely pursued with intensive aim.

## TECHNICAL OR PROFESSIONAL COURSES

The technical or professional courses in the Teachers College are embraced in the following five departments: (1) Education, (2) Educational Psychology, (3) Educational Theory and Practice, (4) Secondary Education, (5) Agricultural Education. Certain prescribed groups from these courses are required for the university teachers' certificate, others for the county certificate (See "Nebraska Certification Laws").

For the University Teachers' Certificate, the following professional courses are required: 1, 2, 4 or 14, and 19 or 20 or 21 or 22; also, such additional work as will give a total of 15 hours in technical education. Among the latter requirements, the student may substitute a two-hour special methods course in the department of his major subject on the approval of the Dean. Intending teachers should at the time of registration confer with the Dean of the Teachers College, that the courses may be properly arranged for the University Teachers' Certificate or for the particular certificate sought.

### I. Education

Head Professor Luckey, Miss Williamson, Mr. Crago

#### GENERAL INFORMATION

The courses in Education are intended primarily for juniors, seniors and graduates, but are open to other students qualified to pursue them with profit. The courses are arranged in sequence, and are most helpful when pursued in the order given. Students are advised to confer with the head of the department before registering.

## GRADUATE WORK

The chief aim of the department of education in its graduate work, is to furnish opportunity to school officers, teachers, superintendents and public spirited citizens for advanced study and investigation of important problems in education. A secondary aim is to advance the profession of teaching.

Candidates for advanced degrees in education must have completed the professional requirements leading to the University Teachers' Certificate or work in education equivalent thereto. Proficiency in one or more academic subjects taught in the high schools is also required.

**Master of Arts Requirements.**—Second Minor: Four hours class-room work for one year. First Minor: Six hours class-room work for one year, with assigned readings equivalent to a two-hour course. Major: At least six hours class-room work for one year, assigned readings and a thesis representing the equivalent of a six-hour course for one year.

The major for the master's degree may be taken as a minor for the doctorate. The number of hours required for major and minor, as given above, is only approximate, and cannot be relied upon unless the quality of the work is of high order.

## COURSES

**1. History of Education**—Ancient and mediaeval, beginning with the earliest periods and extending to the time of Pestalozzi. A study of the physical, moral and intellectual development of mankind, including man's efforts to realize his ideals through systems of education. Especially valuable as a foundation to advanced work in education. Three hours attendance. Three hours credit. First semester.

Head Professor Luckey, Miss Wilhelmson

**2. History of Modern Education.** From the time of Pestalozzi to the present, including the beginning, growth and present condition of education in America. Three hours attendance. Three hours credit. Second semester.

Head Professor Luckey, Miss Wilhelmson

**3. Educational Classics**—A historical and critical study of the educational writings of Rousseau, Pestalozzi, Herbart, Froebel, and Spencer; a valuable preparation for course 4. Rousseau's *Emile*, Pestalozzi's *Leonard and Gertrude*, and Froebel's *Education of Man* are the subjects for 1911-1912. Three hours attendance. Three hours credit. First semester.

Head Professor Luckey, Mr. Crago

**4. Child Study**—The physiology and psychology of childhood, with reference to the pedagogical principles involved; the literature and investigations of special value to the teacher; the more important methods used in child study; the effect of child study on methods of instruction, school

management and other subjects of practical pedagogy. This course covers the development of the child for the first twelve years. It is a valuable foundation for the courses in adolescence. Three hours attendance. Three hours credit. Second semester.

Head Professor Luckey, Mr. Crago

5. **Systems in Education**—Their origin and development, including a comparative study of the leading systems of education in Europe and America. Two hours attendance. Two hours credit. First semester.

Head Professor Luckey

6. **School Hygiene**—A seminary course devoted to the study of school environments and curricula in reference to their effect upon the health, growth and development of school children, including the location and sanitation of school buildings—light, heat, ventilation, furniture; medical inspection, school diseases, baths, and lunches; sleep, food, clothing, exercise, study, fatigue, recreation, and health of teacher and pupils. Two hours attendance. Two hours credit. Second semester.

Head Professor Luckey

7. **Graduate Seminary**—A study of current educational literature as found in the best periodicals; and a study of one or more educational problems of special interest to the teachers of Nebraska. Students will be directed in the preparation of theses that will lead to higher degrees in education. Open to seniors, and graduates who are working for higher degrees in education. One or two hours credit. First semester.

Head Professor Luckey

8. **Graduate Seminary**—7 continued. Second semester.

9. **Adolescence**—The health, growth, mental and moral development of youth as related to the various problems of secondary education, such as attendance, interest, habits of study, discipline, school spirit, ideals, character. An advanced course in child study especially adapted to secondary teachers, principals and superintendents. Prerequisite: Courses 1, 2, and 4. Two hours attendance. Two hours credit. First semester.

Head Professor Luckey

10. **Adolescence**—9 continued. Second semester.

## II. Educational Psychology

In charge of Head Professor Wolfe

The subjects in this and the preceding department are very closely related and should be studied together.

14. **Educational Psychology**—A practical study of the factors which influence the development of body and mind. Open to teachers and also to students in the last two years of their course who have had a semester

of psychology. Two hours attendance. Two hours credit. Second semester. Head Professor Wolfe

15. **The High School**—Evolution of secondary education, showing when the different studies of the curriculum, methods of teaching, and ideals came in, and their meaning and their adaptation to the life of the times. Discussion of current high school problems in the light of this historical study and the study of adolescence. Special reference to public and private secondary schools in Nebraska. For those who wish to devote themselves especially to high school work or superintendence. Two hours attendance. Two hours credit. First semester. Head Professor Wolfe

16. **The High School**—15 continued, with more particular attention to the American high school. One or two hours attendance. One or two hours credit. Second semester. May be taken by qualified students without having taken 15. Head Professor Wolfe

17. **Philosophy of Education**—The principles underlying all education and their influence in determining the material curricula in schools of instruction. Lectures, discussions, and private readings. Two hours attendance. Two hours credit. First semester. Head Professor Wolfe.

18. **Philosophy of Education**—17 continued. Second semester.

### III. Educational Theory and Practice

Head Professor Fordyce, Professor Brownell, Miss Tibbets, Mr. Crocker.  
GENERAL INFORMATION

The courses in this department are intended to offer the essential complement in practice to the theoretical courses in education; the intending teacher is introduced to the actual problems of the class-room through a study of the educational aims, values, and processes found in the Lincoln city schools and in the Teachers College Training School. In connection with the courses named below, one or two hours a week must be devoted to the observation and criticism of instruction that the student may learn to judge good teaching in the light of the principles of education. Parallel with this work in criticism of instruction, the candidate is required to give one hour daily during the semester to actual teaching in the model school that his theories may settle into a system of efficient practice.

#### GRADUATE WORK

Candidates for advanced degrees in this department should have completed the equivalent of the requirements for the University Teachers' Certificate. Minors and majors will be arranged, in harmony with the regulations of the Graduate College, on consultation with the head of the department.

## COURSES FOR UNDERGRADUATES

**19. Educational Theory and Practice in the Elementary School**—The development and formation of the principles of method as gained through lectures, assigned readings, and the study and discussion of the teaching process as observed in elementary schools; the preparation of lesson plans and practice in teaching. One hour daily during the semester must be arranged for practice. Two hours attendance. Two hours credit. First semester.

Head Professor Fordyce

**20. Educational Theory and Practice in the Elementary School**—19 repeated. Second semester.

**21. Educational Theory and Practice in the Secondary School**—Lectures and assigned readings on the principles and technique of high-school instruction. The practical work consists of a critical study of the aims and methods exemplified in the Teachers College Training School and in the Lincoln city schools and of actual teaching to which one hour daily during the semester must be given. Three hours attendance. Three hours credit. First semester.

Head Professor Fordyce

**22. Educational Theory and Practice in the Secondary School**—21 repeated. Second semester.

Note—A limited number who have had Education 21 or 22 are permitted to teach a class in the model high school during an entire year. Such students rank as assistants in the Teachers College Training School. These assistants are required to meet in weekly conference for consideration of the concrete problems that arise in the class-room work. Application for enrollment in these courses should be made the preceding semester.

**23. Supervision and Criticism of Instruction**—Open to graduates and seniors who are planning to become principals or superintendents or supervisors of normal training classes. The course consists of a critical study of the concrete problems growing out of class-room work and is intended to be taken while the candidate is observing or teaching. Two to three hours credit. First semester.

Head Professor Fordyce

**24. Supervision and Criticism of Instruction**—23 continued. Second semester.

**25. School Management**—An elementary course in the organization and management of elementary schools. For the accommodation of first and second-year students who desire to teach the following year. This course is not accepted as part of the requirement for the University Teachers' Certificate, although it meets the practical requirements for the first grade county certificate. Two hours attendance. Two hours credit. First and second semesters.

Head Professor Fordyce

Students fitting to be teachers of the physical sciences in high schools are expected to take the following courses:

**27. Teachers' Methods Course in Physics** (Physics 15)—Discussion in detail of methods and procedure in teaching Physics. Selection and adaptation of subject-matter, and of laboratory exercises; choice of apparatus and supplies; equipment and efficient administration of the laboratory. Difficulties in the teaching of Physics likely to be met in high schools generally. Such understanding and organization of the work as shall reasonably assure successful teaching service from the outset. (Closely related to Physics 16, and Education 33, which see.) Prerequisite: Physics 1, 2, 3, 4 (three hours each). Two hours attendance, three hours preparation. Two hours credit. First and second semesters.

Professor Brownell

**28. Teachers' Laboratory Course in Physics** (Physics 16)—An application of the methods of Physics 15, by those acting as assistants in charge of laboratory sections of the Physics classes in the Training School. Requires care of the laboratory and its supplies, preparation in advance for the experimental work, assistance to students at the tables, and review of papers handed in. A selected list of quantitative experiments suited to high school work to be completed, using such limited equipment as commonly is to be found in high schools. Eight hours laboratory and conference. Two hours credit. First and second semesters.

Professor Brownell

**29. Teachers' Methods Course in Chemistry** (Chemistry 29)—Review of the subject-matter to be taught as Chemistry in high schools. Selection and adaptation of laboratory experiments. Supplies, apparatus and equipment for a laboratory. Efficient laboratory service, and adjustment of these requirements to the school program. Relation of class room instruction to laboratory work. Choice of text and reference books. Educational aims and methods of instruction. (Closely related to Chemistry 30, and Education 33, which see.) Prerequisite: Chemistry 1, 2, 3. Two hours attendance. Three hours preparation. Two hours credit. First and second semesters.

Professor Brownell

**30. Teachers' Laboratory Course in Chemistry** (Chemistry 30)—An application of the methods of Chemistry 29 by those acting as assistants in charge of laboratory sections of the chemistry classes in the Training School. Involves care of the laboratory, preparation in advance for the experimental work, assistance to students at the tables, and review of papers handed in. Completion of a required list of experiments suited to high school uses. Personal direction and criticism. Eight hours laboratory and conference. Two hours credit. First and second semesters.

Professor Brownell

**31. Teachers' Methods in Geography** (Geography 7, 8)—Discussion of the subject-matter and methods of teaching Geography, especially of the Physical Geography of the high school. Relation of the various phases of the subject, and its distribution by grades in courses of study. Accumulation of illustrative materials, and selection of laboratory exercises. Collection and use of reference library books. Reports upon observations of grade teaching. Purpose and management of excursions and field studies. Prerequisite: Geography 1, 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First and second semesters.

Professor Brownell, Assistant Professor Bengtson

**32. Teachers' Laboratory Courses in Geography** (Geography 11b)—An application of the methods of Geography 7 by those acting as assistants in charge of laboratory sections of the geography classes in the Training School. Requires care of the laboratory and its supplies, provision in advance for the experimental work, assistance to students at the tables, review of papers handed in. Four hours laboratory and conference. One hour credit. First and second semesters.

Professor Brownell

**33. Practice Course in the Physical Sciences**—A semester of teaching of classes in the high school sciences under closest critical supervision. Involves class management, preparation for class instruction, making of lesson plans, review of examinations, provision for desk experiments. Closely related to Physics 15, 16, Chemistry 29, 30, Geography 7, 11, which see. Two hours conference each week. Must be taken in connection with Educational Theory and Practice 21 or 22. Two hours credit.

Professor Brownell

#### COURSES FOR GRADUATES

**51. A Specific Study of the Problems in Educational Theory and Practice in Elementary Schools**—Two hours attendance. Two hours credit. First semester.

Head Professor Fordyce

**52. A Specific Study of the Problems in Educational Theory and Practice in Elementary Schools**—51 continued. Second semester.

**53. An Investigation of the Problems in Educational Theory and Practice in Secondary Education**—Two hours attendance. Two hours credit. First semester.

Head Professor Fordyce

**54. An Investigation of the Problems in Educational Theory and Practice in Secondary Education**—53 continued. Second semester.

**55. Criticism and Supervision of Instruction**—Open to graduate students and seniors who are either graduates of normal schools or experienced teachers, who intend to become principals or superintendents in public schools or supervisors of teachers' training classes. Hours and credit to be arranged. First semester.

Head Professor Fordyce

56. Criticism and Supervision of Instruction—55 continued. Second semester.

#### IV. Secondary Education

Professor Reed

35. The Secondary School—A general course on the problems of the secondary school; its organization and equipment; relation of teacher to pupil, to principal, to board of education, to community, and to the profession; the program of studies; a balanced curriculum; questions of class organization; the library; the laboratory. Lectures, discussions, readings, and reports. Open to juniors, seniors and graduates. One hour attendance. One hour credit. First and second semesters. Professor Reed

36. The Accredited School—Systems of admission to higher institutions. College entrance requirements. Accredited relations: theory; basis; effect on programs of studies, courses of study, and curricula. Inspection: theory, history, and methods. The secondary schools: organization; standard of excellence; tests of progress; teacher; equipment library, and laboratories. Open to seniors and graduates. One hour attendance. One hour credit. Second semester. Professor Reed

37. Educational Organization and Administration—This course is planned especially for superintendents and principals. It deals with the problems of organization and administration of public schools as viewed in the light of the prevailing systems in America. Among the topics considered are national and state control of education; the county, township, city and rural system; school building; play ground; the school as a social center; inter-relation of school boards; superintendents, principals, and teachers; supervision of instruction—the teaching staff, improvement of teacher in service; administration of secondary and elementary schools; education for defective and subnormal children; discipline, government, courses of study, grading and promotion. Open to seniors and graduates. Number of hours' credit depends upon work done. First semester.

Professor Reed

38. Educational Organization and Administration—37 continued. Second semester.

#### V. Agricultural Education

Professor Hunter

1. Agricultural Pedagogy—The subject-matter characterizing the various subjects for instruction in agriculture is given careful consideration, the first purpose being to give the student, even though he has not taken all the subjects known as agricultural, a general concept of what agricultural education means. Each subject is then taken up and discussed

with the view of determining its educative value. In this portion of the subject the student must become familiar with the elementary terms used in educational psychology. The best methods of imparting instruction in agricultural subjects to rural and to high school students are then considered. The knowledge which should precede the study of every agricultural subject is carefully discussed, for too often attempts are made by teachers in rural schools to give agricultural instruction without having built a proper foundation. The time which should be devoted to agriculture in the rural schools and in the high school and what materials can best be used for instruction are discussed, and an attempt is made to formulate a rational system of instruction which will, with the ordinary scientific subjects of the high school, constitute an organic whole. Senior year. First semester. Two hours attendance. Two hours credit.

#### EDUCATIONAL COURSES IN THE CURRICULA OF OTHER COLLEGES

**12. American History**—Practical preparation for teaching of American history in Nebraska schools. History in the school curriculum; equipment, qualifications of a teacher, methods, aids; practice work in outlining and map making; observation and practice work in the Teachers College Training School and the Lincoln high school. Required of seniors expecting a teacher's major in American history; may be substituted for Education general methods course. One hour attendance; one hour observation and practice. Two hours credit. Second semester.

Associate Professor Persinger

**33. Botany**—Open only to those who have had courses 1 and 2 and at least four hours more of advanced Botany. Intended to help teachers in the grades, the high schools, and the colleges. Two lectures. Four hours laboratory. Two hours credit. First semester.

Head Professor Bessey

**29. English Language and Literature**—A practical study of the synthetic, interpretative and technical phases of presenting this subject in all primary and secondary grades. Special attention given to outlining of courses, development of material, selection of books for school libraries and home readings. Experience in the preparation and presentation of topics will be gained in connection with the Teachers College Training School Practice Course in Teaching the English Language and Literature. Lectures, written reports, observation reports, criticism, library readings. Prerequisite: Courses 1, 2, 11, 12. Two hours attendance. Two hours credit. First semester. Head Professor Sherman, Professor Stuff

**30. English Language and Literature**—29 continued. Prerequisite:

Courses 1, 2, 11, 12, 17, 31. Two hours attendance. Two hours credit.  
Second semester. Head Professor Sherman, Professor Stuff

31. **Teachers' Practice Course**—Daily Practice in teaching study of problems arising from actual conditions in the class room. Special study of the lesson and its development. One teachers' conference each week. Prerequisites: English Language and Literature courses 1, 2, 11, 12, 29, 30. Two hours credit. First semester. Repeated second semester.

Professor Stuff

45. **European History**—Must be preceded by 1 and 2. Two hours attendance. Two hours credit. First semester.

Head Professor Fling

46. **European History**—45 continued. Second semester.

Greek 40. **The Fine Arts**—The interpretation of Art. This course is designed to help students to a sound criticism and appreciation of works of art. It aims to cultivate the aesthetic sense by discussion of the principles and qualities of art and by practice in interpreting pictures, sculpture, architecture, and decorative designs. It also deals with topics that have to do with the education of children; how pictures may be made useful in the school room in stimulating a love for the beautiful; how they may be helpful in other subjects; what pictures are suitable for the school room. Two hours attendance. Two hours credit. First and second semesters.

Professor Dann

3. **Geography**—This course can be taken to best advantage when preceded by courses 1 and 2. It is open, however, to all persons preparing to teach geography. Both subject-matter and method are emphasized. Visits to the grade schools of the city, and to the Teachers College Training School, together with practice teaching. Some of the topics treated by class discussions and lectures are: Geography by grades in the state course of study; the purpose and management of excursions and field studies; illustrative materials and laboratory exercises; the library; the place of industrial and commercial geography, regional geography illustrated by a study of Nebraska. Two hours attendance. Library, laboratory, field, four hours. Two hours credit. First semester.

Professor Condra, Assistant Professor Bengtson

17. **Greek History (Prose Composition)**—Advanced course. Especially for students expecting to teach. One hour attendance. One hour credit. First semester.

Professor Dann

18. **Greek History (Prose Composition)**—17 continued. Second semester.

13. **Home Economics**—Lectures with practice work in teaching. Two

hours attendance. Four hours outside preparation, including practice teaching. Two hours credit. First semester.

Professor Bouton, Associate Professor Folger

14. **Home Economics**—13 continued. Second semester.

9. **Mathematics**—History of Mathematics. Two hours attendance. Two hours credit. Second semester. Professor Candy

9a. **Mathematics**—Mathematical Pedagogy. The application of the principles of teaching mathematics in actual class work in the Training School. One hour credit. First and second semesters of the senior year.

Miss Hill

3. **Music** (Chorus Conducting)—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. The hours will give a series of Vesper Services assisted by a string quartet. "The Messiah" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester.

Mrs. Raymond

4. **Music** (Chorus Conducting)—3 continued. Second semester.

17. **Physical Education**—(Consult instructors before registering.) Two hours attendance. Two hours credit. First semester.

Men, Professor Clapp; Women, Adjunct Professor Gittings

18. **Physical Education**—17 continued. Second semester.

1. **Human Physiology**—Lecture, demonstration and laboratory course. Two hours lecture. Three hours laboratory. Two hours credit. First semester. Professor Guenther

2. **Human Physiology**—1 continued. Second semester.

5. **General Pharmacology**—A course designed for teachers and students of biology who wish a general knowledge of the physiological action of drugs. The greater part of the time is devoted to the experimental study of the physiological and pathological changes induced by the narcotics and habit producing drugs. No prerequisites. One to two hours attendance. Two to four hours laboratory. One to two hours credit. First semester. Professor Lyman

32. **Rhetoric and English Composition**—Teachers' Course. Aims and methods of secondary-school instruction in rhetoric and English composition. General principles of composition. Discussion of text-books; themes. The management of theme courses. Practice in correcting themes. Open to juniors, seniors, and graduates. Required of candidates for the University Teachers' Certificate in Rhetoric and English Composition. One hour lecture; three hours reading and observation. Two hours credit. Second semester. Head Professor Frye, Professor Fogg

43. **Roman History and Literature**—Lectures on methods of teaching

Latin and on subject matter often overlooked. Model reading of sub-freshman authors. Courses 43 and 44 may be taken in lieu of two hours in general methods in the department of Education. One hour attendance. One hour credit. First semester.

Head Professor Barber

44. **Roman History and Literature**—43 continued. Second semester.

11. **Romance Language** (French Writing and Speaking)—Advanced course. Two hours attendance. Two hours credit. First semester.

Professor Conklin

12. **Romance Languages.** (French Writing and Speaking)—11 continued. Second semester.

36. **Zoology** (Ornithology and Nature Study)—A course in ornithology which may be supplemented by a systematically arranged series of problems designed to train the power of direct observation and deduction from such observation. Planned especially for those expecting to teach in the grades. May be elected as a one hour course in ornithology, demanding one hour attendance and an average of two hours of field and laboratory work weekly, or as a two hour course, demanding in addition a conference hour and an additional field or laboratory period of two hours. Second semester. Open to all, and not recognized in fulfillment of the group requirement for a degree.

Head Professor Wolcott, Mr. Zimmer

#### SPECIAL ONE-YEAR AND TWO-YEAR TEACHERS' COURSES IN TECHNICAL SUBJECTS

Special courses, as follows, may be arranged on consultation with the Dean: Agriculture, Home Economics, Manual Training, Physical Training, Drawing and Modeling, Oral Reading, Public Speaking and Dramatic Interpretation. These are intended for high or normal school teachers and others preparing to become such, who, for any reason, find it impossible to take the full course for a bachelor's degree, which lays a more ample foundation. Those who enter any of these courses are presupposed to be able at least to meet the requirements for "Adult Special" registration.

# Courses of Instruction

in

## The Graduate College, The College of Arts and Sciences, and The Teachers College

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**Explanatory Note**

Courses included between brackets [ ] are not given in 1911-1912.

Students must consult advisers before registering.

Students registered in the College of Agriculture, College of Engineering, College of Law, College of Medicine and the School of Pharmacy are privileged to select courses from the following departments which may apply as electives in regular courses of study.

Likewise, students registered in the Graduate College, the College of Arts and Sciences, and the Teachers College may select courses from the departments exhibited in the colleges named above.

## AMERICAN HISTORY

Head Professor Caldwell,\* Associate Professor Persinger,† Associate Professor Jones, Professor Maxey, Miss Barns, Mr. Kendrick.

### GENERAL INFORMATION

Order of Courses.—Courses 1, 2, 3 and 4 (American) 29 and 30 (English), are general or introductory, and 1 or 29 should usually be taken first by students entering the department. Those wishing to specialize or prepare for teaching should take the first four in order; but those above the Freshmen year who have time for only one year's work may take 3 and 4 alone. Before registering for advanced courses, students are recommended to advise with instructor.

Specialization.—Students expecting to specialize in the department are advised to take, as early in their University work as possible, the general courses in European history, political science and sociology, and political economy. Those intending to specialize in debating, political economy and political science and sociology, are advised by these departments to take as early as possible the general courses in American history. Those specializing in preparation for law, journalism, business, or government service are also advised to consult with the head of the department before registering.

Teachers' Certificate.—Recommendations for the University Teachers' Certificate are given by the department as follows: (1) Major in American history (20 hours)—Courses 1, 2, 3, 4 and 12 required; other 6 hours elective and may include English-American history 29 and 30. (2) Major in American and English history (24 hours): American history, 14 hours—Courses 1, 2, 3, 4, and 12; English-American history, 10 hours—Courses 29 and 30 required, remaining four hours elective. (3) Major in American history and political science and sociology (24 hours): American history, 12 hours—Courses 1, 2, 3, and 4; political science and sociology, 12 hours—Courses 1, 2, and 3, and remaining 5 hours elective on consultation. (4) In "history": American history as a major, 16 to 24 hours; as a minor, 12 hours. (5) In other branches with American history as a minor: American history, 12 hours—Courses 1, 2, 3 and 4.

### GRADUATE WORK

Objects.—Graduate work in the department of American history affords opportunity to prepare for any one of the following four lines of work: (1) The teaching of American history in the best high schools of Nebraska

\*On leave of absence, 1911-1912.

†Acting Head of the Department.

and adjoining states, and in seminaries, academies, and colleges. (2) Fellowships or instructorships in the older and larger universities. (3) Investigational work in corporate, state, or national service. (4) Historical research and writing.

Time.—From one to three (or more) years may be given to this preparation, under the direct advice and assistance of the instructors in the department, and culminating in the degrees of Master of Arts and Doctor of Philosophy. There are also exceptional opportunities for study in the collateral subjects of English and European history, political science and sociology, and political economy and commerce.

Facilities.—The University, State, and State Historical Society libraries afford a wide range of original material for work along many lines of historical investigation. Graduate students have free access to all these libraries, and in addition have for their use a seminary room in which are placed all books needed in their particular lines of research. Books not already on the shelves will be purchased or obtained from other libraries when necessary for thesis or other advanced work. Special seminary courses are offered; and investigation in the history of Nebraska and other states of the plains region will be undertaken and the results published from time to time.

General Requirements.—Undergraduate Courses 1 to 4 and 29 and 30 do not count toward a higher degree, but these or their equivalents and a fair knowledge of general history must be presented by candidates for advanced degrees.

Requirements for Master of Arts.—Work for the Master's degree may be taken in the department as follows: (1) All the work for the degree, including the thesis, in the department. The minimum requirement is one full year's work, including a satisfactory thesis. (2) A major (60%) and the thesis in this department, and the remainder in either one or two other departments. (3) a double minor (40%) or a single minor (20%) in this department, and a major and the thesis in some other department. In any case, the particular courses to be taken are arranged by the candidate and his instructors in such manner as to conform to the plans and preparation of each applicant.

Requirements for Doctor of Philosophy.—The minimum for the degree of Doctor of Philosophy is three full years of graduate work, including the presentation of a satisfactory thesis. The work must be taken in at least two departments and may include three. For a major, 60 per cent. of the time must be given to this department; for a double minor, 40 per cent.; and for a single minor, 20 per cent. The thesis in all cases goes with the major. The particular courses to be pursued are arranged on consultation

between the candidate and the heads of the departments in which his work is to be taken. Those taking a major in this department are expected to have a good general knowledge of European history and a fair acquaintance with the principles of political economy, public law, political science, and sociology. The thesis must show a reasonable degree of original research and independent treatment.

#### COURSES PRIMARILY FOR UNDERGRADUATES

1. **Colonial Period, 1492-1763**—European discovery of and rival colonizations in America; development and institutions of the English colonies; relation to each other and to the mother country; French and Indian War. Three hours attendance. Three hours credit. First semester.

Miss Barns, Mr. Kendrick, Associate Professor Persinger

2. **Revolutionary Period, 1763-1783**—Continuation of 1, but open to new students. Constitutional and political relations of colonies and mother country in 1763; causes and results of revolution and independence; beginnings of state and national governments. Three hours attendance. Three hours credit. Second semester.

Miss Barns, Mr. Kendrick, Associate Professor Persinger

3. **Early National Period, 1783-1820**—Formation and interpretation of constitution; foreign affairs and war of 1812; beginning of slavery struggle—the Missouri compromise; political issues. Not open to first-year students. Three hours attendance. Three credit. First semester.

Associate Professor Persinger, 1911-1912

Head Professor Caldwell, 1912-1913

4. **Later National Period, 1820-1861**—3 continued; open to those who have had 3 and also to seniors. Development of state sovereignty; nullification; annexation of Texas; war with Mexico; annexation of territory; slavery struggle. Three hours attendance. Three hours credit. Second semester.

Associate Professor Persinger, 1911-1912

Head Professor Caldwell, 1912-1913

12. **Teachers' Course**—Practical preparation for teaching of American history in Nebraska schools. History in the school curriculum; equipment, qualifications of a teacher, methods, aids; practice work in outlining and map making; observation and practice work in the Teachers College Training School and the Lincoln high school. Required of seniors expecting a teacher's major in American history; may be substituted for Education general methods course. One hour attendance; one hour observation and practice. Two hours credit. Second semester.

Associate Professor Persinger

[14. **Nebraska History**—Explorations of the Nebraska region; Indian cessions and treaties; territorial organization and politics; statehood, con-

stitutional, political, industrial and social evolution as a state; relation of Nebraska history to national history. Open to advanced students on consent of instructor. Two hours attendance. Two hours credit.]

*Not given in 1911-1912.*

COURSES FOR UNDERGRADUATES AND GRADUATES

[5. **Secession, Civil War and Reconstruction, 1860-1877**—The Civil War; its effects; the problem of reconstruction; impeachment of President Johnson; politics to 1877. Prerequisite: At least one year's work in the department. Two hours attendance. Two hours credit. First semester.

Head Professor Caldwell]

*Not given in 1911-1912.*

[6. **The New Nation**—Reorganization; social and industrial problems; expansion. Two hours attendance. Two hours credit. Second semester.

Head Professor Caldwell]

*Not given in 1911-1912.*

[7. **The American Negro, Slave and Free**—Origin, growth, conflict over, and decline of slavery in America; rise and fall of "negro equality"; the negro problem. Prerequisite: One year's work in the department or special permission of the instructor. Three hours attendance. Three hours credit. First semester.

Associate Professor Persinger]

*Not given in 1911-1912.*

[8. **History of American Political Parties**—Colonial foundations and Revolutionary beginnings; origin, course, and influence of the great parties since 1783; analyses of platforms and votes; third-party movements and their effects. Prerequisite: Courses 3 and 4 or special permission of instructor. Two hours attendance. Two hours credit. Second semester.

Associate Professor Persinger]

*Not given in 1911-1912.*

[9. **Industrial History of the United States**—A non-technical study of the rise and development of the leading American industries, especially since 1783. Two hours attendance. Two hours credit. First semester.

Associate Professor Persinger

[10. **Public Lands Policy and Laws of the United States since 1789**—Introduced by brief study of the "westward movement"; mainly a tracing of national laws and policy in regard to agricultural, mineral, grazing, forest, irrigated and other public lands; some attention paid to development of state policies as to public lands. Intended primarily for those who will have practical use for information derived from the course. Two hours attendance. Two hours credit. Second semester.

Associate Professor Persinger

[11. **External Expansion**—European rivalries in America; making of the

United States; diplomacy, politics, and geography of the various acquisitions; development of system of government and administration for territories and dependencies. Prerequisite: One year's work in the department or special permission of the instructor. Three hours attendance. Three hours credit. First semester. Associate Professor Persinger

[15. **Constitutional History of the United States**—Origin of the Union and federal system; confederation and its failure; constitution, formation and interpretation; growth of unwritten constitution; development through amendments, custom, and judicial decisions. Two hours attendance. Two hours credit. First semester. Head Professor Caldwell]  
*Not given in 1911-1912.*

[16. **Constitutional History of the United States**—15 continued. Two hours attendance. Two hours credit. Second semester.  
Head Professor Caldwell]

*Not given in 1911-1912.*

[18. **Spanish America**—Brief review of Spanish colonial development in the Americas, Spanish-American independence, and diplomatic relations with the United States; more detailed study of present Spanish-American institutions, conditions, and opportunities. Intended especially for those looking forward to consular, diplomatic, or commercial service in Spanish-American states. Open to advanced students only. Two hours attendance. Two hours credit. Second semester. Associate Professor Persinger]  
*Not given in 1911-1912.*

[19. **Political History of the Tariff**—Colonial tariffs; retaliation and reciprocity; rise of economic protection; tariff laws, arguments for and against; sectional and political character. Two hours attendance. Two hours credit. First semester. Head Professor Caldwell]  
*Not given in 1911-1912.*

[20. **American Financial History**—The public debt and its management; public revenue, origin and history; governmental expenditures; banking and money. Treated from political rather than economic point of view. Two hours attendance. Two hours credit. Second semester.  
Head Professor Caldwell]  
*Not given in 1911-1912.*

22. **American Diplomacy**—Organization of Department of State and of diplomatic service. Methods. Problems and controversies growing out of them. Change in our diplomatic policy. Two hours attendance. Two hours credit. Second semester. Professor Maxey

#### COURSES PRIMARILY FOR GRADUATES

23. **Seminary in American National History**—For 1911-1912 the topic for investigation will be the formation, workings, interpretation, and

results of the Missouri compromise from 1818 to 1861. For graduate students, except on permission of the instructor. Two hours attendance. Credit varies. First semester. Associate Professor Persinger, 1911-1912.

Head Professor Caldwell, 1912-1913

24. **Seminary in American National History**—23 continued. Second semester.

27. **Bibliography of American History, 1000-1783**—A required course for all graduate students majoring in the department; recommended to all other graduate students in the field of American history. One hour attendance. One hour credit. First semester.

Associate Professor Persinger

28. **Bibliography of American History, 1783-1909**—Same as 27.

Associate Professor Persinger, 1911-1912

Head Professor Caldwell, 1912-1913

37. **Conference**—Meeting of professors, fellows, scholars and graduate majors for discussion of professional or technical subjects, book reviews, methods, etc. No credit. First semester.

38. **Conference**—37 continued. Second semester.

### English-American History

#### COURSES PRIMARILY FOR UNDERGRADUATES

29. **English History (until 1603) leading up to American Colonization**—English feudalism; church and state; formation of the English nation; development of Parliament; rise of cities and the agrarian revolution; the new monarchy; the renaissance, geographical discoveries, and abolition of papal jurisdiction; the Reformation. Character of English society at the moment of American settlement. Three hours attendance. Three hours credit. First semester.

Associate Professor Jones

30. **Modern English History (after 1603) as related to American History**—Puritan revolution; revolution of 1688 and rise of the cabinet; struggle for colonial supremacy; the House of Hanover and the American revolution; influence of the French Revolution; social reforms; democracy and empire; successive emigrations to America. Three hours attendance. Three hours credit. Second semester.

Associate Professor Jones

31. **Contemporary History**—Recent political events in Great Britain, Germany, France, Italy and Russia, and the relations of these countries to the United States. History and present status of European alliances; Morocco; the Balkan question. Open to juniors and seniors and adult special students. Two hours attendance. Two hours credit. First semester.

Associate Professor Jones

32. **Contemporary History**—American commercial and colonial expansion

sion in the Americas and the Orient: The South American states; Cuba, Porto Rico, the Philippines; Canada; Mexico and Central America; China, Japan and the Far Eastern Question. Open to juniors and seniors and adult special students. Two hours attendance. Two hours credit. Second semester.

Associate Professor Jones

#### COURSES FOR UNDERGRADUATES AND GRADUATES

[33. **The Renascence as Preparatory to American Discovery**—Effects of the classical revival in literature and art; political transformation of Europe; science and inventions; expansion of commerce; discovery and explorations. Two hours attendance. Two hours credit. First semester.

Associate Professor Jones]

*Not given in 1911-1912.*

[34. **Puritanism in England and America**—Protestant Reformation; Puritan Revolution; rise of sects in America. Two hours attendance. Two hours credit. Second semester.]

Associate Professor Jones]

*Not given in 1911-1912.*

35. **Seminary**—A topic in English-American relations. Open to graduates and to advanced students on permission of instructor. Two hours attendance. Two hours credit. First semester.

Associate Professor Jones

36. **Seminary**—A topic in English-American relations. Open to graduates and to advanced students on permission of instructor. Two hours attendance. Two hours credit. Second semester.

Associate Professor Jones

#### ANATOMY

(See "Anatomy," College of Medicine.)

Professor Poynter

The aim of the work in the following courses in Anatomy is to give the students such a knowledge of the human body as will enable them to intelligently apply the principles of Physiology, Physical Culture, and Hygiene to the individual problems they encounter. Cooperation in the great movement for the conservation of health demands a more exact knowledge of the structure of the body than can be gained from the brief study in the grades.

15. **Anatomy for Students of Physical Training**—A course designed to acquaint students of physical training with a general knowledge of the human body and a more detailed knowledge of the muscular system, the peripheral vessels and nerves of the viscera. It must be preceded by Zoology 1, 2, and 7. Two hours attendance. Six hours laboratory, with demonstrations. Three hours credit. First semester.

Professor Poynter

16. **Anatomy for Students of Physical Training**—15 continued. Second semester.

17. **Anatomy for Students of the Teachers' College**—It is the design of this course to acquaint students with the general facts of development, microscopic and gross structure of the body, together with a detailed study of the structures and organs particularly related to the questions of health and disease of special interest to teachers. The course is intended to precede Education 4 and 6. Prerequisite: Botany or Zoology. Three hours attendance. Three hours credit. First semester.

Professor Poynter

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*Note*—No credit can be given for these courses in the College of Medicine.

### ASTRONOMY

Professor Swezey, Associate Professor Loveland, Associate Professor Brenke

#### GENERAL INFORMATION

The Astronomical Observatory with its telescope and other instruments furnishes to elementary students an opportunity to study at first hand the more interesting heavenly bodies. They are given some practice in such exercises as finding accurate time by the stars, determining the latitude of the Observatory, and recognizing with the spectroscope the various elements present in the sun and stars. For advanced work the telescope is equipped with photographic, photometric and spectroscopic appliances; the meridian circle, zenith telescope, transit instrument, and sidereal clock and chronometers furnish facilities for the more important problems in the astronomy of precision.

The location on the campus of the United States Weather Bureau with its self-registering instruments and its daily compiling and printing of a weather map, add much interest to the study of meteorology. A complete series of the daily weather maps for many years furnish original data for all sorts of climatological studies.

For the University Teachers' Certificate the following is the requirement for a major, not less than sixteen hours in courses 5-10; for a minor, not less than twelve hours in these same courses.

#### GRADUATE WORK

**Master of Arts.**—Any of the courses offered to graduates and comprising six hours credit may constitute a minor for a student who takes two minors for his degree. Any two such courses may be taken as a single minor. Two such courses and a thesis constitute a major.

Doctor of Philosophy.—The department does not undertake major work for this degree, but the courses offered for the degree of Master of Arts may be chosen as minors by candidates for the doctorate taking their majors in other departments.

#### COURSES PRIMARILY FOR UNDERGRADUATES

##### Meteorology

1. **Practical Meteorology**—A brief survey of the subject with special attention to its use in every day life. One hour attendance. One hour credit. First and second semesters. Associate Professor Loveland

2. **General Meteorology**—The earth's atmosphere, including composition and extent, temperature, moisture, dew, frosts, clouds, precipitation, winds, and storms. Lectures, readings and laboratory work in constructing weather maps and making forecasts. Course 1 not prerequisite, but may be taken with course 2. Two hours attendance. Two hours credit. First and second semesters.

Associate Professor Loveland

3. **Weather Forecasting**—Laboratory course in study of storms and principles of forecasting. Organization and work of weather services of the world. Prerequisite: Course 2. One hour attendance. One hour credit. Second semester.

Associate Professor Loveland

##### General Astronomy

Courses designed to give such a knowledge of astronomy as every educated person should possess. They involve no difficult mathematical calculations, but include many simple exercises in plotting the positions and motions of the heavenly bodies. Some use of the telescope, spectroscope and other instruments of the observatory.

4. **Descriptive Astronomy: the Solar System**—Lectures, illustrated with lantern, on various astronomical subjects; collateral readings and exercises. One hour attendance. One hour credit. First semester.

Professor Swezey

4a. **Descriptive Astronomy: the Starry Heavens**—Similar to Course 4, but may precede it. One hour attendance. One hour credit. Second semester.

Professor Swezey

5. **Elementary Astronomy**—Open to beginners, but students may take courses 4 or 4a with it if desired. Text-book, illustrated lectures, readings and exercises. Two hours attendance. Two hours credit. First and second semesters.

Professor Swezey

6. **Elementary Astronomy**—Course 5 continued. Second semester.

## COURSES FOR UNDERGRADUATES AND GRADUATES

(Courses 7-10 are more extended courses in general astronomy, for which Course 5 is prerequisite; they may be taken in any order. Numerous exercises in them are best worked by plane trigonometry, but graphical methods can always be used if necessary.)

7. **The Moon and Eclipses.**—Three hours attendance. Three hours credit. First semester. Professor Swezey
8. **Astronomical Instruments**—Two hours attendance. Two hours credit. First semester. Professor Swezey
9. **Gravitation**—Three hours attendance. Three hours credit. Second semester. Professor Swezey
10. **Stellar Evolution**—Two hours attendance. Two hours credit. Second semester. Professor Swezey

## Climatology

11. **Climatology**—Climates of different parts of the world. Causes of these differences. Prerequisite: Course 2. One hour attendance. One hour credit. One or two additional hours credit may be secured by further work in the study of the climates of selected localities. First semester. Associate Professor Loveland
12. **Climatology**—11 continued. Second semester.

## Practical Astronomy

Involves the use of instruments of precision. For teachers or specialists in astronomy or engineering. Courses 4 to 8 are not prerequisites, but would be a useful introduction.

15. **Spherical and Practical Astronomy**—Theory and use of telescope, transit instrument, meridian circle, and zenith telescope. Prerequisite: Plane trigonometry. Three hours attendance. Three hours credit. First and second semesters. Professor Swezey

16. **Spherical and Practical Astronomy**—15 continued. Second semester.

17. **Field Astronomy for Engineers**—Methods of finding latitude, longitude, time and the meridian by means of transit. Three hours attendance. Three hours credit. First and second semesters. Associate Professor Brenke

18. **Geodetic Astronomy**—Methods of finding precise azimuths and latitudes, as employed by the U. S. Geodetic Survey. Involves the use of a theodolite equipped with micrometer microscopes. Three hours attendance. Three hours credit. Second semester.

Associate Professor Brenke

**Mathematical Astronomy**

(Involving calculations, but not observations)

21. **Celestial Mechanics**—Requires the calculus. Three hours attendance. Three hours credit. First semester.

Associate Professor Brenke

22. **Celestial Mechanics**—21 continued. Second semester.

**BACTERIOLOGY AND PATHOLOGY**

Professor Waite, Mr. Putnam

## GRADUATE WORK

As requirements for registration in this department for advanced degrees the applicant must have completed work equivalent to that of a general scientific course in this University. The ability to read German and French is necessary. Before registration for an advanced degree the candidate must consult the head of the department.

Master of Arts.—Second minor: Courses 1, or 2a and 3, or 2a and 4. First Minor: Course 1 and its equivalent along some special line of research. Major: Advanced work following the courses outlined above with a thesis.

Doctor of Philosophy.—Minors: The minimum requirement will be the equivalent of six hours of class work approved by the head of the department. Major: The candidate must have a thorough knowledge of general bacteriology equivalent to that required for the degree of Master of Arts. In addition to this he must have pursued and completed some original problem and must embody the results of his work in a thesis. The minimum time requirement must be at least that required by the University for the degree.

1. **General Bacteriology**—Form, structure, manner of multiplication, reproduction, requirements of growth, and chemical products of bacteria. Relation of bacteria to fermentation and putrefaction and the means by which complex organic compounds are reduced to simple inorganic forms. Disinfection, sterilization, theories of immunity. Non-pathogenic and pathogenic forms. Four hours attendance. Eight hours laboratory. Four hours credit. First semester. Professor Waite, Mr. Putnam

2a. **Elementary Bacteriology**—An introduction to the study of bacteriology. The relation of bacteria to other organisms. Their morphology and structure, chemical composition, and chemical changes which they produce. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Professor Waite, Mr. Putnam

**3. Dairy Bacteriology**—Sources of bacteria in milk. Laetic and butyric acid fermentations, peptonizing, rennet-forming and butyric acid-producing bacteria. Abnormal fermentations giving rise to slimy, bitter, red, blue, yellow and green milk. Relation of milk to spread of tuberculosis, typhoid fever, and other diseases. Sterilization and pasteurization. Bacteria in butter making. Microorganisms concerned in the production of cheese. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Professor Waite, Mr. Putnam

Courses 3 and 4 must be preceded by either course 1 or 2a.

**4. Agricultural Bacteriology**—The nitrogen problem. Bacteria in ammoniacal fermentation, nitrification and denitrification. Bacteria as a means of reclaiming nitrogen lost from the soil. The employment of pure cultures in growing leguminous plants. Azoto bacteria. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Professor Waite, Mr. Putnam

### BIOMETRY

(See Mathematics)

### BOHEMIAN

(See Department of Slavonic)

### BOTANY

Head Professor Bessey, Professor Wilcox, Associate Professor Pool, Associate Professor Sponsler, Assistant Professor Walker, Adjunct Profesor Walker, Mr. Pipal, Miss Hannah, Miss Vail, Mr. Peitersen, Miss Anderson

#### GENERAL INFORMATION

Students entering upon undergraduate botanical work must take courses 1 and 2 or present an equivalent, and are recommended to take 3 and 4, especially in case of preparation for teaching the subject. After this nearly all of the courses are open to election.

For the University Teachers' Certificate in Botany the following courses are recommended: for a 20-hour major, courses 1, 2, 3, 4, 19, 20; for a 16-hour major, courses 1, 2, 3, 4, and 33; for a 12-hour minor, courses 1, 2, 3, 4.

Four laboratories,—general, advanced, physiological, and mycological—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glassware, and other supplies and apparatus.

See, also, Agricultural Botany.

The Botanical Seminar holds open meetings every two weeks for the reading of papers and discussion of botanical questions. To these meetings all students in the department are welcome. Membership in the Seminar is restricted to advanced students of Botany who after invitation succeed in passing the rather severe entrance examinations set for them.

#### GRADUATE WORK

Before formal registration for a degree for graduate work in this department the student must have satisfactorily completed General Botany (courses 1, 2, 3, and 4) and Plant Physiology (courses 19 and 20) or their equivalent (20 hours), and one year of Zoology. He must also be able to read Latin, French, and German.

The research laboratory supplied with microscopes, microtomes, culture apparatus, etc., is for the exclusive use of graduate students. The University Herbarium, of considerably more than 200,000 specimens, and the botanical library are open every work day of the week for study and consultation. For certain lines of graduate work the department has photographic cameras and a dark-room. The department in connection with Agricultural Botany is prepared especially to offer graduate instruction in plant pathology.

**Master of Arts.**—Candidates may select from the following courses: Majors: Cytology, histology, courses 13 to 36 in systematic botany, mycology, plant ecology, plant pathology, economic botany; Minors: Any courses excepting 1, 2, 3, 4, A, 19, and 20.

**Doctor of Philosophy**—Majors: Systematic problems, morphological problems, ecological problems, physiological problems, pathological problems, economic botany; Minors: Any courses excepting 1, 2, 3, 4, A, 19, and 20.

#### COURSES FOR UNDERGRADUATES

##### A. General Botany

Recommended to all students intending to make a thorough study of the science.

**1. General Botany**—Introduction to the structure of plants (cells, tissues, tissue systems). General survey of the plant kingdom, including blue-green and green algae and also the bacteria and some fungi. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Head Professor Bessey, Adjunct Professor Walker, Mr. Pipal

**2. General Botany**—The general survey continued, including brown and red algae, the fungi (including lichens), to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester. Head Professor Bessey, Adjunct Professor Walker, Mr. Pipal

1 and 2. **Botany Arranged for Summer Session**—A study of the structure and activities of selected representatives of the various groups of plants in the vegetable kingdom, beginning with the lowest and ending with the highest. One lecture a day by Professor Bessey, followed immediately by four hours of laboratory work under the charge of Dr. Elda R. Walker, Assistant Professor in Botany. It meets the needs of those who expect to teach botany in the high schools, and it takes up the topics in the sequence recommended to teachers in such schools. It will satisfy the University's requirements for six hours credit in General Botany, so that it may be taken profitably by college and university students who wish to pursue this subject, after consulting with the professor. Five lectures, one quiz and twenty hours of laboratory work and assigned readings per week. Six hours credit.

Professor Bessey, Assistant Professor Walker

3. **General Botany**—A more detailed study of the structure and classification of Myxophyceae to Carpomyceteae, with particular reference to their identification; cell-division, formation of the primary tissues and introduction to cytological technique. Three hours lecture. Eight hours laboratory. Four hours credit. First semester.

Assistant Professor Walker

4. **General Botany**—A similar study of Bryophyta to Anthophyta; their origin and relationships; spore formation and the development of the embryo. Three hours lecture. Eight hours laboratory. Four hours credit. Second semester.

Assistant Professor Walker

## B. Special Botany

### I. Histological Botany

5. **Cytology**—Plant cell and karyokinesis in lower and higher plants with cytological technique. One hour lecture. Six hours laboratory. Two hours credit. First semester.

Assistant Professor Walker

6. **Histology**—Tissues and tissue aggregates in higher plants, with the technique of staining and mounting. With special reference to woody plants. Must be preceded by 1 and 2. Two hours lecture. Eight hours laboratory. Three hours credit. Second semester.

Assistant Professor Walker

### II. Systematic Botany

13. **Flowering Plants**—Principles of the classification of Monocotyledons and their particular application to the Grasses. Two hours lecture. Four to twenty hours laboratory work in the field and herbarium. Two

to six hours credit. First semester.

Head Professor Bessey, Associate Professor Pool

**14. Flowering Plants**—Principles of the classification of Dicotyledons and their particular application to the Compositae. Otherwise as in course 13. Second semester.

Head Professor Bessey, Associate Professor Pool

**B. Systematic Botany**, for Teachers—Field work and laboratory work under the direction of the professor, with occasional lectures or conferences. Two to eight hours credit. Summer Session. Head Professor Bessey

**15. Mycology**—A survey of the development and present condition of our knowledge of fungi. The general morphology, physiology, life history, and classification of the Phycomycetes, Ascomycetes, Basidiomycetes and Fungi Imperfecti. The laboratory work familiarizes the student with the current histological technique for the preparation and detailed study of different fungous structures, as well as the diseased parts of infected plants. Three hours lecture. Eight hours laboratory and field work. Three hours credit. First semester.

Associate Professor Pool

**16. Mycology**—15 continued second semester. The role of fungi in the production of plant diseases receives special treatment in this course. The development and condition of our present knowledge of plant diseases. Pathological centers and the literature of plant diseases. Bacterial diseases; diseases caused by filamentous fungi. The most typical and important diseases of our common plants is discussed. The laboratory work familiarizes the student with modern pathological technique, including the preparation of the various culture media. Three hours lecture. Eight hours laboratory and field work. Three hours credit. Second semester.

Associate Professor Pool, Adjunct Professor Walker

**23. Advanced Mycology**—Study of a selected group of fungi, including morphology, development and classification. Two lectures or conferences. Four to thirteen hours laboratory. Two to five hours credit.

Associate Professor Pool

**24. Advanced Mycology**—23 continued. Second semester.

**25. Forest Mycology**—An adaptation of courses 15 and 16 for students in horticulture and forestry. The general morphology and physiology of fungi, followed by a detailed study of the morphology, physiology, development, and classification of the fungi which attack the leaves, stems and roots of woody plants, especially of forest trees. Field trips for the recognition and the collection of material. Two hours attendance. Six hours laboratory and field work. Two hours credit. First semester.

Associate Professor Pool

**31. Botanical Literature**.—Library work with frequent conferences.

Prerequisites courses 1, 2, 3, 4, 19, 20 or equivalents. Two to four hours credit. First semester. Head Professor Bessey

32. **Botanical Literature**—Continuation of course 31.

35. **Dendrology**—Brief review of the morphology and physiology of the tree. Forest regions and forest types. Distribution. Economic importance. Detailed study of dendrological and silvical characteristics of about one hundred important forest trees. Two hours attendance. Four hours laboratory and field work. Two hours credit. First semester.

Associate Professor Sponsler

36. **Dendrology**—35 continued. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester.

### III. Physiological Botany

19. **Plant Physiology**—An introductory study of the processes and functions of plants. Including imbibition; osmosis, absorption; the relation of the soil and of solutes to the plant; the movement of substances in the plant body; transpiration; guttation; bleeding; maintenance of bodily form; turgor; secretion; waste products. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Associate Professor Pool

20. **Plant Physiology**—Photosynthesis; the question of the manufacture and assimilation of foods; stomatal relations; the nitrogen cycle; the storage and digestion of foods; respiration and fermentation; growth and movement; irritability; stimulus and response; correlation, reproduction of plants. Three hours attendance. Three hours credit. Six hours laboratory. Second semester.

Associate Professor Pool

21. **Plant Ecology**—A study of the relation of plants to their environment. Adaptation; methods of studying vegetation; the quadrat method and other vegetational charts. The plant formation. The origin, development, structure and succession of plant formations; alteration and zonation. A quantitative study in the field of the factors of the habitat by means of ecological instruments. Designed to give a general view of the matter and methods of modern ecology. Prerequisites: Courses 19 and 20. Two hours attendance. Four to six hours laboratory and field work. Two hours credit. First semester.

Associate Professor Pool

22. **Plant Ecology**—A further test of the theories and of the methods of ecology in the field. Detailed field studies will be made in the prairie and salt-marsh formations about Lincoln, also of the mesophytic forest formations along the Missouri river. The plant formations and successions in various parts of the United States will also be treated. Prerequisites: Courses 19, 20, and 21. Two hours attendance. Four to six

hours laboratory and field work. Two hours credit. Second semester.  
Associate Professor Pool

#### IV. Technical Botany

33. **Methods of Teaching Botany**—Open only to those who have had courses 1 and 2 and at least four hours more of advanced Botany. Two lectures. Four hours laboratory or library work. Two hours credit. First semester.

Head Professor Bessey

37. **The Study of Woods**—Study of structure of important woods leading to identification and relation of structure to strength, weight, shrinkage, and other physical properties. Primarily for foresters; engineers may elect this course for two hours credit after consultation with the instructor. Prerequisite for foresters: Botany 6. Two hours attendance. Six hours laboratory. One hour reading. Three hours credit. First semester.

Associate Professor Sponsler

#### COURSES FOR GRADUATES ONLY

(The student may register for any one of these courses year after year until the completion of his problem.)

39. **Economic Botany**—An advanced study of the uses of plants; the origin, distribution, and modifications of cultivated plants; and the systematic botany of the plants used by man. Open only to students who have had a sufficient training in systematic botany. Five or ten hours credit. First semester.

Head Professor Bessey

40. **Economic Botany**—39 continued. Second semester.

41. **Systematic Problems**—Assigned problems in the field and herbarium. Five or ten hours credit. First semester.

Head Professor Bessey, Associate Professor Pool

42. **Systematic Problems**—41 continued. Second semester.

43. **Morphological Problems**—Assigned problems in the morphology of a plant, or group of plants. Five or ten hours credit. First semester.

Head Professor Bessey, Assistant Professor Walker

44. **Morphological Problems**—43 continued. Second semester.

45. **Ecological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester.

Head Professor Bessey, Associate Professor Pool

46. **Ecological Problems**—45 continued. Second semester.

47. **Physiological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester.

Head Professor Bessey, Associate Professor Pool

48. **Physiological Problems**—47 continued. Second semester.

49. **Pathological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester.

Head Professor Bessey, Professor Wilcox

50. **Pathological Problems**—49 continued. Second semester.

## CHEMISTRY

Professor Dales, Adjunct Professor Mary Louise Fossler, Adjunct Professor Borrowman, Mr. Frankforter, Mr. Wilson,  
Dr. Cutter, Miss Graham

### GENERAL INFORMATION

Courses A, B, 1, 2, and 3, give a general knowledge of the aims, principles, and methods of the science. These courses, with 29, and four hours electives in the department, fit students to teach chemistry in high schools and thus form a major for the University Teachers' Certificate. They serve also as a foundation for a thorough and exact scientific training. In them the student is given a general survey of the field of chemistry, both inorganic and organic, including the nature of chemical processes and the use of chemical apparatus. Courses for Teacher's Certificate major may, under special circumstances and on consultation with the head of the department, be reduced to 16 or 17 hours. Courses for the 12-hour Teachers' Certificate minor are to be chosen after similar consultation.

The following sequence of courses is recommended for students in the general groups who specialize in chemistry:

First Year—Consult the head of department or associate in regard to registering for A and B; 1, and 2, or whether all four courses should be completed during the first year.

Second year—For students who have completed 1 and 2, Courses 3, 5, 7.

Third year—Courses 8, 14 or 34, 26 or 44.

Fourth year—Courses 15, 16, 21, 22, 25, 27 or 39, 40.

Courses A, B, 1, 2, 3, 5, 14 and 29 are primarily for undergraduates.

Courses 7, 8, 15, 16, 21, 22, 26, 27, 39, 40, 43, and 44, are for the following classes of students:

1. Undergraduates who specialize in chemistry.
2. Graduates, particularly those who select chemistry as a minor for advanced degrees.

### GRADUATE WORK.

Graduate work in Chemistry is based upon the assumption that the student has had courses A, B, 1, 2, 3, 25, and 26 or their equivalents.

Courses 5, 7, and 8, are regarded as fundamentals and must be taken before a student may pursue chemistry as a major subject.

Students may pursue any special line of work in which they may have become interested as a result of advanced work in this or other universities. The opportunities for young men in technical work, especially assaying, railway chemical work, various manufacturing concerns, experiment station and government work are continually on the increase. Many of the latter are open to young women. The demand for good science teachers is always greater than the supply.

Courses for advanced degrees usually lie in experimental chemistry and chemical theory, much latitude being allowed in respect to the exact topics. The attainment of a degree depends more upon the candidate's ability to think clearly and closely than upon the accomplishment of a fixed amount of work.

**Master of Arts.**—**Minors:** Four to six hours selected from courses 7, 8, 15, 16, 21, 22, 26, 27, 39, 40 and 44 with consent of the head of the department. **Major:** Advanced work along one of the lines indicated by courses above named and a thesis.

**Doctor of Philosophy.**—**Minors:** Not less than six hours class work selected by the candidate upon consultation with the head of the department. **Major:** Graduate study and the preparation of a thesis which shall mark an advance in knowledge along the line of the subject chosen. The exact time requirement cannot be given, but shall be at least the minimum required by the University for the degree. The candidate for the doctorate from this department must choose two minors from allied subjects.

### General Chemistry

**\*A. General Chemistry**—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-

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\*A and B are not to be confused with courses of the same designation previously given. These courses are designed to present the subject to students in the College of Arts and Sciences. No previous training in chemistry is required. The course previously termed A is now replaced by course D, while the older B is now designated combined 1 and 2.

In general, students desiring to study chemistry, who enter the University with two points credit, should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise, to register as follows: Those in the College of Arts and Sciences, in the Teachers College and in the Home Economics group in the College of Agriculture, will register for Chemistry A. Students in the College of Agriculture other than those just mentioned, the College of Engineering, and the College of Medicine will register for Chemistry D.

metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Professor Dales, Mr. Wilson, Miss Graham

\*B. **General Chemistry**—Continuation of course A. Especial attention is given to the metallic elements, the more common organic compounds and the applications of chemistry to every day life. Prerequisite: Course A. Three hours lecture. Four hours laboratory. Three hours credit. Second semester.

Professor Dales, Mr. Wilson, Miss Graham

\*D. **The Non-metalic Elements**—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for course 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester.

Professor Dales, Mr. Wilson, Miss Graham

26. **History of Chemistry**—Lectures; the elaboration of an assigned topic by each student. Prerequisite: Courses 1, 2, and 3. Two hours attendance. Two hours credit. Second semester.

Professor Dales

*Given in 1911-1912 and alternate years thereafter.*

28. **Advanced Inorganic Chemistry**—Elements discussed in order in which they occur in periodic table. Special consideration to the properties and interrelations of the groups. The rarer elements given detailed treatment. Lectures illustrated by experiments. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Three hours credit. Second semester.

Professor Dales

29. **Teachers Methods Course in Chemistry**—Review of the subject-matter to be taught in chemistry in high schools. Selection and adaptation of laboratory experiments. Supplies, apparatus and equipment for a laboratory. Efficient laboratory service, and adjustment of these requirements to the school program. Relation of class room instruction to laboratory work. Choice of text and reference books. Educational aims and methods of instruction. [Closely related to Chemistry 30, and Education 33-34 which see.] Prerequisite: Chemistry 1, 2, and 3. Two hours attendance. Two hours credit. First and second semesters.

Professor Brownell

30. **Teachers Laboratory Course in Chemistry**—An application of the methods of chemistry 29 in the laboratory sections of the chemistry classes of the Training School as assistants in charge. Involves care of the laboratory, preparation in advance for the experimental work, assistance to students at the tables, and review of papers handed in. Completion of a

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\*See foot-note on page 117.

required list of chemistry experiments suited to high school uses. Personal direction and criticism. Eight hours laboratory. Two hours credit. First and second semesters.

Professor Brownell

44. **Theoretical Chemistry**—Principles and theories of general chemistry. Two hours attendance. Two hours credit. Second semester.

Adjunct Professor Fossler

*Given in 1912-1913 and alternate years thereafter.*

### Analytical Chemistry

1. **Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D or 2 credit points. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Adjunct Professor Borrowman, Mr. Wilson, Miss Graham

2. **Qualitative Analysis**—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Adjunct Professor Borrowman, Mr. Wilson, Miss Graham

1 and 2 (combined), **Qualitative Analysis**—Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester. Professor Dales, Mr. Wilson, Miss Graham

5. **Qualitative Analysis**—Study of characteristic reactions for the rarer elements and their application to analytical purposes; elementary spectroscopic analysis; dry way reactions. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First and second semesters.

Professor Dales

7. **Quantitative Analysis**—Gravimetric determinations of the more important bases and acids, including complete analysis of ores, limestones, and alloys. Prerequisite: Courses 1 and 2. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. First and second semesters.

Mr. Frankforter

8. **Quantitative Analysis**—7 continued. Volumetric analysis, electrolytic analysis, the sanitary analysis of water and the analysis of gases. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. First and second semesters.

Mr. Frankforter

20. **Dental Chemistry**—Chemistry and metallurgy as applied to dentistry. Two hours lecture. Four hours laboratory. Two hours credit. Second semester.

Adjunct Professor Borrowman

21. **Assaying**—Qualitative examination of ores. Blow-pipe and chemical tests for the common ores and minerals. Principles of fire assays for gold, silver, and lead in ores and metallurgical products. Prerequisite:

Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First semester. Adjunct Professor Borrowman

22. **Assaying**—21 continued. Volumetric and gravimetric methods for the determination of silver, copper, zinc, lead, tin, and iron. Two hours lecture. Four hours laboratory. Two hours credit. Second semester.

Adjunct Professor Borrowman

39. **Advanced Analytical Chemistry**—A more extended study of chemical analysis than that offered in courses 7 and 8. Laboratory practice leading to analytical research. Six to fifteen hours laboratory. Two to five hours credit. First semester. Professor Dales

40. **Advanced Analytical Chemistry**—39 continued. Second semester.

41. **Toxicology**—Poisons; chemical nature, antidotes, and methods for detection. Prerequisite: Courses 1, 2, 3, 34. Two hours lecture. One hour quiz. Three hours laboratory. Two hours credit. First semester.

Doctor Cutter

### Organic and Physiological Chemistry

3. **General Organic Chemistry**—The important classes of organic compounds of the aliphatic and benzene series. Derivatives: Preparation of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester.

Adjunct Professor Fossler

15. **Organic Chemistry**—For students who desire a more extended knowledge of organic chemistry than that offered in course 3, or who wish to specialize. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Four hours laboratory. Two hours credit. First semester.

Adjunct Professor Fossler

16. **Advanced Organic Chemistry**—15 continued. Second semester.

34. **Physiological Chemistry**—Organic compounds and chemical processes of physiological importance, including a study of the chemistry of the urine. Useful in subsequent study of practical medicine. Prerequisite: Courses 1, 2, and 3. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. Second semester. Doctor Cutter

14. **Food and Sanitary Chemistry**—Chemical processes of nutrition; evaluation of foods, preservatives, cleansing agents, etc., with a practical laboratory course in food and water analysis, including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2, and 3. Five hours lecture with demonstrations. Eight hours laboratory. Five hours credit. Second semester.

Adjunct Professor Fossler

43. **Nitrogen Chemistry**—An elective course of one hour lecture a

week on the evolution of compounds of nitrogen, their properties, and products of dissociation. Prerequisite: General inorganic and organic chemistry. One hour credit. First semester.

Adjunct Professor Fossler

### Physical Chemistry

25. **Physical Chemistry**—Elementary course, the general principles of physical chemistry with applications to chemistry and to other sciences; designed for students in the Arts and Sciences and Medical Colleges. Prerequisite: Courses 1, 2, and 3. Two hours lecture. Two hours credit. First semester.

Professor Dales

27. **Physical Chemistry**—Laboratory course. Methods of most general application to chemistry. May be taken with or after course 25. Six hours laboratory. Two hours credit. First semester. Professor Dales

### Technical Chemistry

23. **Engineering Chemistry**—The chemistry of the materials of engineering—iron and steel, Portland cement, fuels, gases, boiler water, etc., with a laboratory course in the analysis of the same. Required of all engineers. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First and second semesters.

Adjunct Professor Borrowman

23a. **Engineering Chemistry**—A laboratory course for engineers and others who wish to do more than is required in course 23. Prerequisite: Courses 1, 2, and 23. Hours credit dependent upon amount of work done. First and second semesters.

Adjunct Professor Borrowman

## EDUCATION COURSES

[See Teachers College.]

## ENGLISH LANGUAGE AND LITERATURE

Head Professor Sherman, Professor Stuff, Associate Professor Wallace,  
Associate Professor Pound

### GENERAL INFORMATION

Courses 1 and 2, dealing with elements and first principles of criticism, are introductory to all the other work of the department.

**The University Teachers' Certificate.** On account of the necessity for common preparation in Rhetoric and English Literature, a major is not open in either of these subjects singly. A major in Rhetoric and a major

also in English Literature will be credited to those who secure credit for twenty-eight hours in the courses following:

Rhetoric—Courses 3 and 4, four hours; 7 and 8, six hours.

English Literature—Courses 1 and 2, six hours; 11 and 12, four hours; 17 and 18, eight hours.

It is necessary for students offering the majors in English Literature and in Rhetoric to include a minor of twelve hours in some allied subject.

Candidates offering English Literature as a major for the degree of Master of Arts must have completed as undergraduates at least courses 1, 2, 5, 6, 11 and 12, and must include among graduate subjects courses 17, 18, 33, and 34.

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. English Literature**—Introductory. Literary elements and principles, with illustrative study of modern poetry and prose. First and second semesters. Three hours attendance. Three hours credit.

Associate Professor Wallace, Professor Stuff

**2. English Literature**—1 continued. Masterpieces in the drama, novel, short story, dramatic monologue, and interpretative poetry and prose. First and second semesters. Three hours attendance. Three hours credit.

Associate Professor Wallace, Professor Stuff

**3. Shakespeare**—First studies in the literary art of this author. *Macbeth*, studied in daily written exercises and library readings, with independent investigation of special topics on the art and literary history of the play. Three hours attendance. Three hours credit. First semester.

Associate Professor Wallace

**4. Shakespeare**—3 continued. Written studies in *Hamlet* and *Othello*. Three hours attendance. Three hours credit. Second semester.

Associate Professor Wallace

**5. The History of English Literature**—A survey of the development of English Literature, the rise of literary forms, periods of literary history, and various formative and other influences. Special class study of Chaucer, Spencer, Milton, and others. Three hours attendance. Three hours credit. First semester.

Professor Pound

**6. The History of English Literature**—5 continued. Second semester.

**7. Comparative Literature in English**—Intensive study of Job and other Hebrew literature. Comparative studies on kindred themes, from Greek, Celtic, English, Spanish, and German literature. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester.

Professor Stuff

**8. Comparative Literature in English**—Literary art in Matthew, Mark,

Luke, and John. Comparative studies from Swedish, French, Italian, English, and American literature. Prerequisite: Courses 1 and 2. Two hours attendance required. Two hours credit. Second semester.

Professor Stuff

**9. Nineteenth Century English Poets**—English poets from 1798 to 1900. The romantic movement of the early nineteenth century. Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Landor. The Victorian period. Tennyson, the Brownings, Clough, Arnold, Rossetti, Morris, Swinburne. Preliminary completion of courses 5 and 6, though desirable, is not essential. Two hours credit. First semester.

Associate Professor Pound

**10. Nineteenth Century English Poets**—9 continued. Two hours credit. Second semester.

**11. English Literature**—Literary art and diction. Studies in the development of modern prose. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester.

Head Professor Sherman

**12. English Literature**—11 continued. Daily written exercises of appreciation and criticism, in selected specimens of best literature. Two hours attendance. Two hours credit. Second semester.

Head Professor Sherman

**14. American Literature**—Its relation to the national life and thought. Lectures, collateral readings, and reports. Two hours credit. Second semester.

Associate Professor Pound

#### COURSES FOR UNDERGRADUATES AND GRADUATES

**15. Current Comparative Literature**—Literary art of today. Comparative view of means, modes, and influences. Study of chief authors in Scandinavian, German, Russian, French, Italian, as well as English, and American writers. Prerequisite: Courses 1 and 2. Class limited to twenty. Admission by conference with instructor. Acquaintance with French and German or Italian is desirable, but not essential. Two hours attendance. Three hours credit. First semester.

Associate Professor Wallace

**15a. The Short Story**—Art of the modern short story in America, England, Russia, Germany, France, and Italy, with a survey of its evolution. Entrance by permission. Two hours attendance. Two hours credit. First semester.

Associate Professor Wallace

**15b. The Short Story**—15a continued. Second semester.

**16. Current Comparative Literature**—15 continued. Two hours attendance. Three hours credit. Second semester.

17. **Essentials of Old English:** Outline of Old English Grammar—Reading at earliest moment of prose and poetic specimens. *Beowulf*, through 500 lines. Introductory to the history of the English language and the history of Old English literature. Four hours attendance. Four hours credit. First semester.

Associate Professor Pound

18. **Old and Middle English and History of the English Language**—17 continued. *Beowulf* continued. The development of the language traced from Old to Modern English, the history of inflections, sound changes, spelling, etc. Outline of Middle English grammar. Reading of selected Middle English texts before Chaucer. Four hours credit. Second semester.

Associate Professor Pound

19. **The Novel**—Its relation to the expression of life. Study of modes and art principles in the interpretation of life. Two hours attendance. Two hours credit. First semester.

Professor Stuff

20. **The Novel**—19 continued. Two hours attendance. Two hours credit. Second semester.

21. **Elizabethan-Jacobean Drama**—Shakespeare's contemporaries to the readjustment of the theaters, 1610. Reciprocal influences. Principles of the drama. Study of the play-houses. Prerequisite: Courses 1 and 2. Two hours attendance. Weekly conferences. Three hours credit. First semester.

Associate Professor Wallace

22. **Elizabethan-Jacobean Drama**—21 continued. Shakespeare's contemporaries and successors from 1610 to 1642. Introduction to scientific methods of investigation. Two hours attendance. Weekly conference. Three hours credit. Second semester.

Associate Professor Wallace

23. **Browning**—Written studies of *Luria*, *Return of the Druses*, *Pippa Passes*. Two hours attendance. Two hours credit. First semester.

Associate Professor Wallace

24. **Browning**—23 continued. *The Ring and the Book*, *Sordello*. Second semester.

Associate Professor Wallace

25. **Shakespeare**—Advanced studies in dramatic art, as represented in *Cymbeline*, *The Winter's Tale*, *Coriolanus*. Two hours attendance. Two hours credit. First semester.

Head Professor Sherman

26. **Shakespeare**—25 continued. *Romeo and Juliet*, *Twelfth Night*, *King Lear*. Two hours attendance. Two hours credit. Second semester.

Head Professor Sherman

27. **English Ballads**—Introduction to the study of popular poetry. Reading of selected ballads of England and Scotland, with some references to ballads in other literatures. The ballad revival in the eighteenth century. Modern imitative ballads. One hour attendance. One hour credit. First semester.

Associate Professor Pound

**28. English Lyric Poetry**—Nature of the lyric. Survey of leading lyric kinds and types: ballads, sonnets, odes, elegies, etc. History of the English lyric. Two hours attendance. Two hours credit. First semester.

Associate Professor Pound

**29. Teachers' Course in English Language and Literature**—A practical study of the synthetic, interpretative and technical phases of presenting this subject in all primary and secondary grades. Special attention given to outlining of courses, development of material, selection of books for school libraries and home readings. Experience in the preparation and presentation of topics will be gained in connection with the Teachers College High School Practice Course in Teaching the English Language and Literature. Lectures, written reports, observation reports, criticism, library readings. Prerequisite: Courses 1, 2, 11, 12. Two hours attendance. Two hours credit. First semester.

Head Professor Sherman, Professor Stuff

**30. Teachers' Course**—29 continued. Prerequisite: Courses 1, 2, 11, 12, 17, 29. Two hours attendance. Two hours credit. Second semester.

Head Professor Sherman, Professor Stuff

**31. Teachers' Practice Course**—Daily practice in teaching. Study of problems arising from actual conditions in the class room. One teachers' conference each week. Prerequisite: Courses 1, 2, 11, 12, 29, 30. Two hours credit. First semester. Repeated second semester.

Professor Stuff

**33. Principles of Dramatization**—Construction in the drama of Shakespeare, Moliere, Schiller, and Goethe. Two hours attendance. Two hours credit. First semester.

Head Professor Sherman

**34. Principles of Dramatization**—31 continued. Construction in the drama of Corneille, Calderon, Goldoni, Maeterlinck, Ibsen, and in the classic drama. Second semester.

Head Professor Sherman

#### COURSES PRIMARILY FOR GRADUATES

**35. Advanced Old English**—Open to students who have a working knowledge of the language. The special mode of study varies according to the needs or equipment of the class. Serves often as an introduction to comparative Teutonic philology. Outline of general phonetics included if necessary. Precedent or accompanying study of Gothic and Old High German recommended. Two hours attendance. Two hours credit. First semester.

Associate Professor Pound

**36. Advanced Old English**—33 continued. Second semester.

Associate Professor Pound

**37. History of Old English Literature**—Reading of texts in translation.

Study of textual and manuscript criticism, disputed reading, dates, problems of authorship and interpolation, historical and mythological elements, history of opinion, etc. One hour attendance. One hour credit. First semester.

Associate Professor Pound

38. **History of Old English Literature**—35 continued. Second semester.

39. **The Mediaeval Drama**—Development of the liturgical drama. Origins and growth of Mysteries, Miracles, and Moralities in England and continental Europe. Studies of text and form. Two hours attendance. Two hours credit. First semester.

Associate Professor Wallace

40. **Pre-Shakespearean Drama**—Development of the new English drama to Marlowe. Two hours attendance. Two hours credit. Second semester.

Associate Professor Wallace

41. **Seminary in English Literary Prose**—Study of development and excellencies. Two hours attendance. Two hours credit. First semester.

Head Professor Sherman

42. **Chaucer**—Literary and linguistic studies. Informal lectures on contemporary fourteenth century life and literature. Two hours attendance. Two hours credit. Second semester.

Associate Professor Pound

43. **Seminary in Criticism**—Two hours attendance. Two hours credit. First semester.

Head Professor Sherman

44. **Seminary in Present Literary Forms and Tendencies**—Two hours attendance. Two hours credit. Second semester.

Head Professor Sherman

45. **Celtic Sentiment and Thought in its Relation to English Literature**—A survey of early Irish and Welsh literature with special study of the Arthurian sources. Admission on consent of the instructor. Two hours attendance. Two hours credit. First semester.

Professor Stuff

46. **Celtic Sentiment and Thought in its Relation to English Literature**—43 continued. Celtic influence upon the English romantic movement. Two hours attendance. Two hours credit. Second semester.

Professor Stuff

47. **Seminar**—Studies in the Elizabethan drama. Investigations of special topics. Methods of scientific research. Consultations and formal reports. Admission upon approval of instructor. Two hours attendance. Two hours credit. First semester.

Associate Professor Wallace

48. **Seminar**—45 continued. Direction of individual studies in the drama, novel, short story, or other literary form. Modern scholastic methods of research. Two hours credit. Second semester.

49. **Seminary**—In the Classical and Modern Drama. Two hours attendance. Two hours credit. First semester.

Head Professor Sherman

50. **Seminary**—49 continued. Second semester.

## ENTOMOLOGY

Head Professor Bruner, Associate Professor Swenk, Mr. Dawson

Courses 1 and 2 are open to all students, and they, or their equivalent, must precede all other courses in entomology except 3 and 4. Courses 3 and 4 must precede courses 7 and 8. The undergraduate courses of the department are given in the general laboratory and lecture room which is located on the third floor of Nebraska Hall.

### GRADUATE WORK

A candidate for the degree of Master of Arts in entomology must have had Zoology 1 and 2, or their equivalents, in addition to Entomology 1 and 2. He should be able to read Latin and either French or German, or both.

The department has in Experiment Station Hall, a laboratory fully equipped for the use of students engaged in research work along systematic lines, and a modern insectary well provided with apparatus useful in facilitating research in economic entomology, such as breeding cages, cameras, dark room and aquaria, for those investigating the life-histories of insects. The research laboratory is supplied with compound and dissecting microscopes, microscopical accessories, camera lucida, lanterns and slides and illustrative models and charts. A collection of insects numbering approximately 135,000 pinned specimens is well housed in special cabinets and Schmitt boxes and is available for study by advanced students; it is particularly rich in Hymenoptera, Diptera and Orthoptera and contains many specimens of these orders named by specialists, including a considerable number of their types. While the greater portion of the collection is representative of our state and national fauna, it is also exceedingly rich in exotic material from Argentina, Costa Rica and Mexico collected by Professor Bruner on entomological excursions to these countries. The library contains practically complete files of all the American and the principal foreign entomological periodicals as well as most of the special monographs in the various orders, and is readily accessible to advanced students, while the excellent economic libraries of the State Entomologist and Nebraska Experiment Station are close at hand and available for reference. The results of studies carried on in the department are issued consecutively in a numbered series.

Master of Arts—As his major for the degree of Master of Arts the student may choose either courses 15 or 16 or 17 and 18. He may elect his first and second minors from the other courses offered as graduate studies

in this department or from the courses offered as graduate studies in the department of zoology. The graduate work of this department is of so technical a nature, being chiefly designed to prepare students as government, state or experiment station investigators in entomology or as museum scientists, that each student should consult with the head of the department before registering.

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. General Entomology**—A general survey of the class Insecta, with introductory lectures on arthropod structure, physiology, transformations, distribution and behavior, followed by a consideration of the characteristics of the orders, suborders and principal families of insects, and the life histories and habits of typical species. Laboratory dissections of typical forms of the various orders, correlated with the lectures. Three hours attendance. Six hours laboratory and preparation. Three hours credit. First semester. Head Professor Bruner, Mr. Dawson

**2. General Entomology**—1 continued. In addition, general work in the collection and classification of insects, and the study of microscopical forms. Three hours attendance. Six hours laboratory and preparation. Three hours credit. Second semester. Head Professor Bruner, Mr. Dawson

**3. Economic Entomology**—An introduction to the practical phases of entomology, presenting the broad principles of insect damage and control. Types of insect injury; beneficial insects; parasitism; gall formation; fungous and bacterial diseases of insects; climatic influences on insect control; cultural preventatives and artificial remedies in fighting insect pests. Assigned readings and laboratory work in rearing insects and following out life-histories in the insectary, designed principally to give the student a general view of insect metamorphosis and of insectary methods and the use of apparatus. This course and the following one are especially adapted to the requirements of students in both the general and technical agricultural groups electing entomology as an agricultural subject. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Head Professor Bruner

**4. Economic Entomology**—3 continued. Detailed studies of our most conspicuous insect pests, concerning their life-histories and habits, and preventatives and remedies for them, and in the spring observations of their work in the field. Does not presuppose course 3, although it is recommended that students elect that course immediately preceding this one. Two hours attendance. Four hours laboratory and field work. Two hours credit. Second semester. Head Professor Bruner

## COURSES FOR GRADUATES AND UNDERGRADUATES

**5. Systematic Entomology**—A study of the principles and machinery of classification as applied to insects. Taxonomic groups; evaluation of characters; evolution of organs; dimorphism; nomenclatural codes; synonymy; types; methods of description; construction of tables; use of reference books; faunal areas; ecological methods. Laboratory work with various insect groups, designed to give a conception of the varying value of classificatory characters. Two hours attendance. Seven or more hours laboratory. Three or more hours credit. First semester.

Associate Professor Swenk

**6. Systematic Entomology**—5 continued. In addition, a detailed study of entomological technique involving the methods of collecting, preparing and preserving entomological specimens for the cabinet and museum; entomotaxy; use of entomological apparatus; entomography; entomological literature and methods of publication; bibliography, index and catalogue compilation. Two hours attendance. Seven or more hours laboratory or field work. Three or more hours credit. Second semester.

Associate Professor Swenk

**7. Advanced Economic Entomology**—A review of the groups of insects injurious to any host plant or group of plants, including the insect enemies of corn, the small grains, alfalfa and clover, grasses, potato, sugar beet, garden vegetables, apple, stone fruits, grape and bush fruits. Assigned and original laboratory work on life-histories and actual field work in investigating insect pests. Two hours attendance. Ten or more hours laboratory. Four or more hours credit. First semester.

Head Professor Bruner, Associate Professor Swenk

**8. Advanced Economic Entomology**—7 continued. In addition, a consideration of the principal insect enemies of domestic animals and stored vegetable and animal products, the preparation and use of insecticides and methods of spraying and fumigation; nursery inspection; determination of injurious scale insects; entomological office methods; insect photography. Two hours attendance. Ten or more hours laboratory. Four or more hours credit. Second semester.

Head Professor Bruner, Associate Professor Swenk

**9. Apiculture**—A general survey of the subject, including a discussion of the structure, life-history, varieties and communal life of the honey bee; methods of handling bees, formation of colonies, enlarging brood nests, controlling the colony growth, rearing of queens, honey and wax production, honey-producing plants, apiary paraphernalia and the symptoms, etiology and control of bee diseases and other enemies of bees. One hour attendance. Two hours laboratory and reading. One hour credit. First semester.

Head Professor Bruner

10. **Domestic Entomology**—A series of lectures on insects affecting the household, with suggestions for their control. House ants, cockroaches, termites, silver fish, clothes moths, carpet beetles, skippers, flour beetles and meal worms, lice, fleas, house flies, mosquitos, etc. One hour attendance. Two hours laboratory and reading. One hour credit. Second semester.

Associate Professor Swenk

11. **Forest Entomology**—Lectures and laboratory studies on the insects of the forest. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Head Professor Bruner

12. **Historical Entomology**—An outline of the history of entomology, particularly the development of economic entomology from the earliest efforts down to the work of Riley and the advent of the new school of entomologists. One hour attendance. Two hours assigned readings. One hour credit. Second semester.

Associate Professor Swenk

13. **Medical Entomology**—A study of insects in their relation to the transmission of certain human diseases and of their capacity as human parasites. One hour attendance. Two or more hours laboratory. One or more hours credit. Second semester.

Head Professor Bruner

14. **Seminary**—The seminary work of the department is carried on by the Nebraska Entomological Society, an association of students specializing in entomology and taking advanced or graduate courses, meeting one evening of each week for the presentation of papers and the discussion of current progress in entomological science. Time spent in the preparation of papers and attending meetings may be applied as laboratory work.

#### COURSES PRIMARILY FOR GRADUATES

(These courses may be registered for repeatedly until the completion of the problem.)

15. **Research in Systematic Entomology**—Independent studies under the advice of the head of the department leading to the monographing of some genus, subfamily or family of insects or the detailed study of the insect fauna of Nebraska in one of the larger groups. First semester.

Head Professor Bruner

16. **Research in Systematic Entomology**—15 continued. Second semester.

17. **Research in Economic Entomology**—Individual investigation of some special problem in economic entomology, usually the monographing of a species or group of species of economic importance. First semester.

Head Professor Bruner

18. **Research in Economic Entomology**—17 continued. Second semester.

## EUROPEAN HISTORY

Head Professor Fling, Adjunct Professor Pfeiffer, Miss Needham

### GENERAL INFORMATION

The undergraduate courses in European history are intended for the following classes of students:

1. Those who are preparing to teach history in the high school or in the college. Courses 1 and 2 should be taken the first year; courses 5 and 6 with 3 and 4, or 17 and 18, or 19 and 20 the second year; 47 and 48, or 17 and 18, or 19 and 20, the third year. This is the minimum requirement in European History for the University Teachers' Certificate. Students are strongly urged to elect in addition in the senior year, a seminary and the Teachers' Course (45 and 46, or 47 and 48). The languages needed in the advanced work, especially French, should be taken up in the first and second years. Students are advised to consult with the head of the department (during registration week) concerning their work.
2. Those who are specializing in language and literature. Courses 3 and 4 are intended for students of English literature, 7 and 8 for students of German literature, and may be taken by those who have not had courses 1 and 2.
3. Those who are preparing for law or debate will find especially valuable the training in the use of evidence given in courses 1 and 2. The same courses are helpful to students of economics and sociology.

### GRADUATE WORK

The department offers excellent opportunities for graduate study on the French revolution and the Napoleonic era. The collection of sources and secondary works upon the early revolution is the best in the west and one of the best in the country. On the Napoleonic era the department has recently acquired the valuable Oncken collection of manuscripts, containing the correspondence of the most distinguished English diplomats during the years 1812-1815 inclusive. Each year special courses and seminars are offered on these two periods. In the seminars, the student is introduced in a critical way to the best sources and investigations are begun that may lay the foundation for research work abroad. To take advantage of these courses, the student should have had general courses on the French revolution and the Napoleonic era, some undergraduate training in the use of sources, and should have acquired a reading knowledge of French. With such a preparation, it is possible to take the master's degree in one year. When the student is not properly prepared, the training may be secured in the undergraduate courses offered by the

department. This preparatory work may be done in one year, if the student has already acquired in undergraduate courses a fair working knowledge of European history.

**Master of Arts—Second Minor:** At least eight hours of graduate work; two years of undergraduate work are required before graduate work can be entered upon. **First Minor:** Same as 1, 2, 3, and 4 for major. **Major:** (1) an acquaintance with the history of Europe from the beginning of Greek history to the last quarter of the nineteenth century; (2) a knowledge of the literature of European history, consisting of the best known sources in English, French and German, and the most important works of secondary writers; (3) an acquaintance with bibliographical aids and historical atlases; (4) a theoretical knowledge of the methods of historical research; (5) a thesis based on the sources.

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. European History from the Germanic Migrations to 1871**—Required for the University Teachers' Certificate in History. Three hours attendance. Three hours credit. First semester.

Head Professor Fling, Adjunct Professor Pfeiffer, Miss Needham

**2. European History**—1 continued. Second semester.

**3. English History to 1558**—Required for the University Teachers' Certificate in History. Two or three hours attendance. Two or three hours credit. First semester. Adjunct Professor Pfeiffer

**4. English History after 1558**—3 continued. Second semester.

**5. The Germanic Migrations and the Germanic Kingdoms**—Pre-requisite: Courses 1 and 2. Required for the University Teachers' Certificate. Three hours attendance. Three hours credit. First semester.

Adjunct Professor Pfeiffer

**6. The Empire of Charlemagne**—Required for the University Teachers' Certificate. Three hours attendance. Three hours credit. Second semester.

Adjunct Professor Pfeiffer

**7. German History to 1618**—For students who are preparing to teach German and have had two years of German. Three hours attendance. Three hours credit. First semester.

Miss Needham

**8. German History after 1618**—7 continued. Second semester.

**45. Teachers' Course in Greek History**—Must be preceded by 1 and 2. Two hours attendance. Two hours credit. First semester.

Head Professor Fling

**46. Teachers' Course in Greek History**—45 continued. Second semester.

#### COURSES FOR UNDERGRADUATES AND GRADUATES

**[17. The French Revolution]**—Open to students who have had one year's

work in the department. Two hours attendance. Two hours credit. First semester.

Head Professor Fling]

*Given in 1912-1913.*

[18. **The Napoleonic Era**—The requirements are the same as for course 17. Two hours attendance. Two hours credit. Second semester.

*Given in 1912-1913.* Head Professor Fling]

19. **Europe in the Nineteenth Century**—The requirements are the same as for course 17. Two hours attendance. Two hours credit. First semester.

Head Professor Fling

20. **Europe in the Nineteenth Century**—19 continued. Second semester.

23. **Seminary on the French Revolution**—One hour attendance. One hour credit. First semester.

Head Professor Fling

24. **Seminary on the French Revolution**—23 continued. Second semester.

59. **Seminary on Napoleonic Period**—One hour attendance. One hour credit. First semester.

Miss Needham

60. **Seminary on Napoleonic Period**—59 continued. Second semester.

#### COURSES PRIMARILY FOR GRADUATES

25. **Historical Method**—Detailed lectures on the problems of historical research and construction, accompanied by readings in the best English, French, and German monographs and by practical exercises. One hour attendance. One hour credit. First semester. Head Professor Fling

26. **Historical Method**—25 continued. Second semester.

49. **Seminary on French Revolution**—One hour attendance. One hour credit. First semester.

Head Professor Fling

50. **Seminary on French Revolution**—49 continued. Second semester.

57. **The Unification of France**—One hour attendance. One hour credit. First semester.

Head Professor Fling

58. **The Unification of France** (July, 1789-July, 1790).—One hour attendance. One hour credit. Second semester.

Head Professor Fling

#### FRENCH

(See Romance Languages)

#### GEOLOGY

Head Professor Barbour, Miss Barbour, Mr. Schramm, Miss Webster

Elementary Botany, Chemistry 1 and 2, and Zoology should precede the study of Geology. A knowledge of Greek and Latin, of French and Ger-

man is of prime importance for advanced work and collateral readings. As far as possible courses are repeated each semester.

The courses in this department are wholly elective.

Courses leading to advanced degrees are arranged, on consultation, to meet the needs of candidates.

### Geology

1. **Elementary Geology**—Dynamical and Historical. Collateral readings, examination and determination of about 200 common minerals, rocks and fossils. Three hours attendance. Three hours credit. First semester.

Head Professor Barbour

1a. **Elementary Geology**—1 repeated second semester. Two hours attendance. Two hours credit.

3. **Advanced Geology**—Collateral readings. Experimental and laboratory and field work. Two hours credit. First semester.

Head Professor Barbour

7. **Practical Course**—Teachers' course. Study of the common crystals, minerals, rocks and fossils. Lectures and field excursions. Three hours attendance. One hour credit. Second semester.

Head Professor Barbour

8. **Map Construction and Interpretation**—Teachers' course. Map drawing and coloring; modelling in papier mache, clay, wax and other media; making plaster and gelatine moulds; casting in plaster of Paris. Suited to various grades. One hour credit. First semester.

Head Professor Barbour, Miss Barbour, Miss Webster

### Paleontology

9. **Zoological Geology**—An elementary study and comparison of living and fossil forms. One hour attendance. Two hours laboratory. One hour credit. First semester.

Head Professor Barbour

10. **Zoological Geology**—9 continued. Second semester.

11. **Local Paleontology**—Fossils of the state. Designed primarily for teachers. Prerequisite: Course 9. One or two hours credit. First and second semesters.

Head Professor Barbour, Miss Barbour

12. **Local Paleontology**—Special problems. Designed primarily for graduate students. Credit conditioned on results. First and second semesters.

Head Professor Barbour

13. **Applied Geology** (Follows Geology 1)—Elementary lithology, mineralogy, paleontology, field work, map drawing, etc. Designed for students, teachers, and others wishing general information respecting

common minerals, rocks, ores, fossils, field and laboratory methods, etc. One hour attendance. First and second semesters. Two hours laboratory, One hour credit. Head Professor Barbour, Mr. Schramm, Miss Webster

#### FOR SPECIAL STUDENTS

For students desiring special work as an aid to mining engineering, civil service appointment for work in geology, forestry, topography, Geology 13 may be combined with any one or more of the following courses:

A—**Elementary Mineralogy and Blowpipe Analysis**—One hour attendance, two hours laboratory, one hour credit.

B—**Elementary Paleontology**—Study of index fossils for stratigraphic determination. One hour attendance, two hours laboratory, one hour credit.

C—**Elementary Lithology**—One hour attendance, two hours laboratory, one hour credit.

D—**Elementary Crystallography**—One hour attendance, two hours laboratory, one hour credit.

E.—**Elementary Field work, relief maps, etc.,** one credit hour.

#### Mineralogy and Crystallography

15. **Mineralogy**—Blow-pipe analysis of minerals. One or two hours attendance. Two to five hours laboratory. One or two hours credit. First and second semesters. To be preceded or accompanied by course 17.

Mr. Schramm, Head Professor Barbour

16. **Mineralogy**—15 continued. First and second semesters.

17. **Crystallography**—Crystallographic forms and measurements, mathematical relations, physical and optical properties. To precede or accompany course 15. One hour attendance. Two hours laboratory. One hour credit. First and second semesters.

Head Professor Barbour

#### Lithology

29. **Elementary Lithology**—For teachers and others who wish a general knowledge of rocks. One hour attendance. Two hours laboratory. One hour credit. First semester.

Mr. Schramm

30. **Advanced Lithology**—A study of rocks and rock-forming minerals determined by means of physical, optical and chemical methods. Prerequisite: Courses 11, 13, and 17. One or two hours credit. Second semester.

Mr. Schramm

**Field Geology**

31. **Advanced Field Work**—Geologic and topographic mapping, with particular emphasis on methods employed by the United States Geological Survey, construction of relief maps from topographic maps made by the students. Finished report from field notes. One hour attendance. Two hours field and laboratory. One hour credit. First and second semesters.

Mr. Schramm

**Mining Geology**

33. A study of metaliferous deposits, the metallic and non-metallic minerals, their origin, occurrence, distribution, and economics. Two hours attendance, four hours laboratory and library. Two hours credit. First semester.

Mr. Schramm

34. A study of the mineral fuels including coal, oil, and gas, and other hydrocarbons, their origin, mode of occurrence, distribution, and economics. Two hours attendance. Four hours laboratory and library. Two hours credit. Second semester.

Mr. Schramm

To meet demands further arrangements will be made for additional courses in Mining to be announced in September, 1911.

**GEOGRAPHY AND ECONOMIC GEOLOGY**

Professor Condra, Professor Brownell, Associate Professor Loveland,  
Assistant Professor Bengtson, Mr. —————

Courses 1-6 are open to all students.

Students preparing to teach Geography in the grades, or in the high school, should consult with the head of the department concerning the choice and sequence of courses, and make the elections preferably by the beginning of the Sophomore year. The elections for majors and minors will vary with the individual needs of students. A student taking a major or a minor in geography is advised to elect at least two courses in related sciences—botany, zoology, chemistry, physics. The following, subject to modification depending upon the college in which the student is registered, is the requirement for major in Geography: Courses 1 (Geography of the Land), 2 (Geography of North America), 3 (Geography of Europe), 4 (The Atmosphere), 5 (Industrial Geography), 6 (Commercial Geography), 7 and 8 (Methods), 9 or 10 (Field), 11 or 12 (Laboratory). Men, if not in the Teachers College, should substitute Field Geology 21 for 9 or 10, and Economic Geology 25 and 28 for 7, 8 and 11. Requirements for a minor: Twelve hours to be selected upon consultation with the head of the department.

Graduate instruction leading to the second and third degrees is offered. Theses are based on original work done in the laboratory and field.

### Geography

#### COURSES FOR UNDERGRADUATES AND GRADUATES

**1. Physical Geography of the Land**—An introductory lecture and laboratory course upon practical physiography. Some of the topics discussed are: The common minerals, rocks, structures, and relief features; classification and interpretation of maps; origin and detailed description of the land forms produced by wind, ground water, rivers, glaciers, earthquakes and volcanoes. The lectures are fully illustrated by lantern, maps, models and specimens. Students carrying this course are advised to take also one or both of the related courses, 7 and 9. Two hours attendance. Four hours laboratory, library and preparation. Two hours credit. First semester.

Professor Condra, Assistant Professor Bengtson

**2. Geography of North America**—A summary study of the political divisions, relief, drainage slopes, coast lines, climate, evolution and structure of the continent, and a fuller treatment of each of the seventeen topographic regions; the structure, physiographic history, topography and drainage, resources and industries, and geographic control of the settlement and development of each region. Attention is given to the literature of the subject. The course is suited to all students who wish a knowledge of the geography of our country. The Great Plains Region is emphasized. Lectures are illustrated. The correlating course is number 8. Two hours attendance. Four hours library, laboratory and preparation. Two hours credit. Second semester.

Professor Condra, Assistant Professor Bengtson

**3. Europe and Asia**—A summary of the larger physiographic features of Eurasia, followed by a close study of the more important commercial countries especially in their relations to the United States. Chief attention is given the geographic influences which have controlled the industrial development of the different countries. The relations of climate, structure, topography, position, and people to national progress are emphasized. Considerable attention is given the countries bordering the Mediterranean in their relation to religious movements. Two hours credit. First semester.

Assistant Professor Bengtson

**4. The Atmosphere**—A study of the meteorology and geography of the atmosphere. The course is designed to meet the practical needs of students in agriculture and forestry. Some of the topics considered are: The physical and chemical nature of the atmosphere; distribution of heat and

atmospheric pressure; wind systems; humidity and rainfall; storms; hot winds; changes and fluctuations of climate; climatology in its relation to deserts, prairie land, forests, agriculture, and the distribution of people. Students are taught the construction of weather maps and climatic charts, forecasting, and the use and care of meteorological instruments. Experiments of various kinds are performed in the wet laboratory. Two hours attendance. Four hours laboratory and preparation. Two hours credit. First and second semesters.

Associate Professor Loveland

**5. Industrial Geography**—This course gives a general survey of the natural resources and their conservation. A specific study of mineral fuels, iron and steel, water power, cotton, rice, sugars, coffee and tea, wheat, corn; the principal commercial raw materials as shown by museum specimens; the forms, processes and commercial relations are shown by the use of illustrative materials and well-selected sets of lantern slides. Two hours attendance. Four hours museum, library and preparation. Two hours credit. First semester.

Professor Condra, Assistant Professor Bengtson

**6. Commercial Geography**—A study of the geographic influences in the development of American industries. Much attention is given the distribution of natural resources and the commercial agencies essential to their development. Among the commercial problems studied are: Trade routes and American railways; inland water highways; control of public utilities; conservation of mineral resources; international trade; development of foreign markets. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Assistant Professor Bengtson

**7. Methods in Physical Geography**—This course deals primarily with the problem of presenting Physical Geography in the high school. Discussion of subject matter and methods of teaching. Collection and use of reference books and illustrative material. Selection of laboratory exercises. Purpose and management of field excursions. Should be preceded by Geography 1 and 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Professor Brownell, Assistant Professor Bengtson

**8. Methods in General Geography**—A course in subject matter and methods designed to be helpful to teachers and superintendents. Some of the topics treated by class discussions and lectures are: Geography by grades in the course of study; the place of industrial and commercial geography; equipment in the line of illustrative material and reference library; normal training geography; regional geography as illustrated by the geography of Nebraska. Visits are made to the Lincoln schools and re-

ports upon observations of grade teaching. Should be preceded by Geography 1 and 2, or equivalent. Two hours attendance. Two hours credit. Second semester. Professor Brownell, Assistant Professor Bengtson.

**9. Field Geography**—For women. Excursions are made to points of geographic interest near Lincoln, Milford, Pleasant Dale, Roca, South Bend and Louisville. A study is made of rivers, flood plains, terraces, glacial deposits, rock ledges, escarpments, talus slopes, valleys, quarries, building materials, and sand dredging. Persons wishing the course should consult with one of the instructors before registering. Credit depending on time and results, usually one hour.

Professor Condra, Mrs. Condra

**10. Field Geography**—Course 9 continued. Second semester.

**11. Teachers Laboratory Course in Physical Geography**—Eight hours laboratory and conference. Two hours credit. First and second semesters.

A. Involves working a selected list of exercises suitable for general use in high schools. The teachers' problems in preparing for these exercises are studied, and some time given to discussion of suitable demonstration experiments for class use. Serves to prepare students for actual laboratory supervision.

Assistant Professor Bengtson

B. Assistance to laboratory sections of Physical Geography in the Training School. Requires care of the laboratory, provision in advance for the experimental work, assistance to students at the tables, review of papers handed in.

Professor Brownell

**12. Laboratory Course in Regional Geography**—Intensive study of selected regions of the United States designed to furnish students the preparation necessary for accurate independent work. Three hours laboratory. One hour credit. Second semester. Assistant Professor Bengtson

**17. Seminar**—Primarily for graduate students. Credit determined by results and time. First semester.

Professor Condra

**18. Seminar**—Course 17 continued. Second semester.

#### Field and Economic Geology

This instruction is planned for engineering and agricultural students, but may be elected by others, especially those who wish to prepare for work on the U. S. Geological Survey or to do commercial work.

With approved substitutions and electives students can prepare appropriately in the Civil Engineering group, for work in soil surveys and geological engineering. The electives and substitutions are to be recommended by the Professors of Civil Engineering and Economic Geology, and approved by the Dean of the College of Engineering. (See note under College of Engineering.) For information concerning Mining Engineering, see Professor of Economic Geology.

**21. Field Geology**—Open to all men students; excursions to outcropping formations, quarries, clay pits, gravel pits and sand dredges along Salt Creek, Blue River and the Platte. Use of the aneroid barometer, level, transit, camera and drawing materials as employed on geological surveys. Mapping and descriptions. Collateral readings. One or two hours credit depending on results. First and second semesters.

Assistant Professor Bengtson

**25. Engineering Geology**—The properties, origin, occurrence, and use of certain rock-forming minerals; types of structure; periods and systems; the geology of mineral fuels, water supplies, sand and gravel, building stone, cement materials, road materials, and clay. The various materials are studied in the laboratory. Examination and reports on quarries, clay pits and sand deposits; lectures illustrated by lantern, specimens and maps. Two hours attendance. Four hours library, laboratory and field. First semester. Two hours credit.

Professor Condra, Assistant Professor Bengtson

**28. Agricultural Geology**—A study of soil forming, road and cement-making minerals and rocks; the leading geologic structures; rock weathering and soil erosion; ground water; rural water supplies; drainage and topographic conditions of agricultural relation; evolution of farm animals as shown by fossils; the structure and soil regions of Nebraska; the agricultural importance of the "Red bed," Pierre, Bad land, Loup Fork, glacial, loess, alluvial and dune sand formations. Two hours attendance. Four hours laboratory, field and library. Two hours credit. Second semester.

Professor Condra, Assistant Professor Bengtson

### GERMANIC LANGUAGES AND LITERATURES

Head Professor Fossler, Professor Grumann, Assistant Professors Heppner, Schrag, Adjunct Professor Baumgartner, Instructors Alexis and Chamberlain, Fellows

#### GENERAL INFORMATION

The University finds it necessary to offer elementary or beginning courses in German notwithstanding the fact that some ninety high schools in the state maintain such courses. Accordingly the first four semesters are devoted to a mastery of the fundamental facts and principles of the language as such. The study of literature proper is not begun until the fifth semester. The courses in Conversational German, too, presuppose a preparation of at least two college or three high-school years.

Courses 5-10 inclusive represent the lines of work which third-year students may pursue with profit, while Courses 11-20a are open, generally

speaking, to fourth-year students. Specially strong and well prepared third-year students may likewise be admitted to these advanced courses. To insure a wise and profitable selection of studies, students are urged to consult with the department before registering.

Requirements for the University Teachers' Certificate. Major: courses 4, 5, 6 (or 5a), 7, 8, 19, and six hours of advanced literature studies to be selected from courses 9, 10, 11, 12, 13, 14. Minor: courses 4, 5, 6 (or 5a), 7, 8, 19. The foregoing courses presuppose the equivalent of a two-year high-school German course.

#### GRADUATE WORK

For the present the size of the teaching force and the subsidiary facilities at its command do not justify undertaking graduate work beyond the requirements leading to the Master of Arts degree. Before beginning such graduate studies, the candidate must have had at least the equivalent of eight full semesters of college German. The advanced work may be along either literary or philological lines, though all candidates, whether interested in pure linguistics or in literature, should take up the more fundamental courses—Phonetics, Gothic, and Comparative Grammar. Adequate assistance and directions for the successful prosecution of literary studies are given in lectures, reports, and frequent interviews. The University Library contains the more representative works of German literature which, with an adequate supply of critical and biographical material, afford the student ample facilities for this line of work.

A candidate may make such a combination of courses as best suits his needs. Since the department's purpose is to encourage a thorough mastery of certain phases of Germanics rather than to insist upon set or prescribed time limits, no definite statement of required hours can be given. From two to three semesters—the candidate giving his full time—are necessary to complete the work for the degree. Minors may be chosen either in this or in allied departments. A satisfactory thesis must precede the final examination.

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. Beginners' Course**—Grammar and exercises with readings; sentence-structure; word-building; vocabulary. Five hours attendance. Five hours credit. First semester.

Professor Grummann, Assistant Professors Heppner, Schrag,  
Adjunct Professor Baumgartner, Instructor Chamberlain, Fellows

**2. Beginners' Course**—1 continued. Modern narrative prose. Texts selected conform to those recommended by the Committee on "German

Units" of the North Central Association of Colleges and Secondary Schools. Hours, credit and instructors as in Course 1. First and second semesters. ~~High-school students who have had two semesters of German should register for this course.~~

**3. Second Year German**—Wesselhoeft's *Composition Exercises*; Charlotte Niese's *Aus dänischer Zeit*; Rosegger's *Waldheimat* or Freytag's *Die Journalisten*. Five hours credit. First and second semesters.

Assistant Professors Heppner, Schrag,

Adjunct Professor Baumgartner, Instructor Chamberlain

**4. Second Year German**—3 continued. Arnold's *April Wetter*; Fulda's *Das Verlorne Paradies*; Schiller's *Jungfrau von Orleans*, or Meyer-Förster's *Karl Heinrich* or Lessing's *Minna von Barnhelm*. Five hours attendance. Five hours credit. First and second semesters. ~~Students who have had two years of German in a high school should register for this course.~~

Professor Grumann, Assistant Professors Heppner, Schrag,

Adjunct Professor Baumgartner, Miss Chamberlain

**5. Introductory Literature**—Analysis and interpretation of Schiller's *Maria Stuart*; Goethe's *Hermann und Dorothea* or *Italienische Reise*. Hatfield's collection of *German Lyrics and Ballads*. Supplementary readings of some easier texts. Three hours attendance. Three hours credit. First semester. Miss Chamberlain

**6. Introductory Literature**—5 continued. Close analysis and literary interpretation of Goethe's *Iphigenie*; Schiller's *Tell*, or Lessing's *Emilia Galotti*; Heine's *Harzreise*. Three hours attendance. Three hours credit. Second semester. Miss Chamberlain

**5a. Introductory Literature**—The work of courses 5 and 6 is here done, approximately, in one semester. Designed to enable those students who finish their fourth semester German at the mid-year to prepare for advanced courses in their third year. Second semester. Five hours attendance. Five hours credit. Head Professor Fossler,

Professor Grumann, Assistant Professor Schrag

**7. Conversation**—Ready and idiomatic German through class-room instruction and practice. Special attention is paid to colloquial, every-day German. Review of German grammar. Three hours attendance. Three hours credit. First semester.

Head Professor Fossler, Assistant Professors Heppner, Schrag, Instructor Alexis

**8. Conversation and Composition**—7 continued. Second semester.

**9. Earlier Nineteenth Century Dramatists**—Selected dramas of Kleist, Grillparzer, Ludwig, Hebbel. Three hours attendance. Three hours credit. First semester. Dr. Schrag

10. **Earlier Nineteenth Century Dramatists**—9 continued. Second semester.

13a. **Ibsen**—Reading and interpretation of *Puppenheim*, *Rosmersholm*, *Hedda Gabler* *Baumeister Solnesz*, *John Gabriel Borkmann*, and *Wenn wir Toten Erwachen*, together with lectures on the other plays of the author. Ibsen's influence upon German naturalism. Two hours attendance. Two hours credit. First semester. Professor Grumann

14a. **The German Sociological Drama**—Course especially designed to meet the needs of students of sociology who do not have a reading knowledge of German. A study in English translations of Ibsen's *A League of Youth* and *Pillars of Society*; Hauptmann's *Before Sunrise*, *Lonely Lives* and *The Weavers*; Halbe's *Hans Rosenhagen* and *The Stream*. One hour attendance. One hour credit. Professor Grumann

#### COURSES FOR UNDERGRADUATES AND GRADUATES

11-12. **Advanced Literature**—Lessing's *Nathan der Weise*, or Schiller's *Wallenstein*, Goethe's *Dichtung und Wahrheit*, *Werther* and *Faust*, Van der Smissen's *Shorter Poems* of Goethe and Schiller. Grimm's *Life and Times of Goethe*; Thomas' *The Life and Works of Schiller*. Private reading of such classics as are not taken up in class and reports thereon. Three hours attendance. Three hours credit. First and second semesters.

Head Professor Fossler

13-14. **The Modern Novel and Drama**.—Representative works of Hauptmann, Sudermann, Fontane, Kretzer, Halbe, Wildenbruch, Fulda, and others. Lectures and reports. Three hours attendance. Three hours credit. First and second semesters. Professor Grumann

15-16. **History of German Literature**—From the beginning to 1790. Scherer's *History of German Literature*, Franke's *Social Forces in German Literature*, Kluge's *Deutsche National-Literature* are made the bases of the work. Lectures, reports and readings. Three hours attendance. Three hours credit. First and second semesters.

Adjunct Professor Baumgartner

17. **Germanic Mythology**—Critical study of the most important Germanic myths. Origin of myths and the relation of mythology to folk-lore. Two hours attendance. Two hours credit. First semester.

Professor Grumann

18. **German Hero Lore**—A study of the origin and growth of the Volsunga Saga. A comparative study of Hebbel's *Die Nibelungen*, Wagner's *Der Ring des Nibelungen* and Ibsen's *Nordische Heerfahrt*. Two hours attendance. Two hours credit. Professor Grumann

19. **Teachers' Course**—A general survey of the principles underlying the teaching of German. Lectures, assigned reading, papers and reports

on topics connected with language teaching in secondary schools. Practice teaching. A careful examination of the aims and objects to be kept in view, as well as of grammars and other texts suitable for high schools. The course also includes a thorough review of the chief difficulties of German grammar and the elements of phonetics. Text-books: Fraser and Van Der Smissen German Grammar, Bagster-Collins *German in Secondary Schools*, *The Teaching of Modern Languages*, *The Report of the Committee of Twelve*, Viëtor's *Kleine Phonetik*, etc. Prerequisites: Courses 4, 5, 6 (or 5a), 7, 8 inclusive or their equivalents. Students should consult the instructor before registering for this course. Three hours attendance. Three hours credit. First semester. Head Professor Fossler

**20. Advanced Conversation and Composition Course**—(Continuation of courses 7, 8, and 19). Texts: Thiergen's *Am Deutschen Herd*, Paskowski's *Lesebuch*, Kluge's *Themata zu deutschen Aufsätzen und Vorträgen* and material suggested in latter work. Two hours attendance. Two hours credit. Second semester. Head Professor Fossler

**20a. Deutsche Kultur, Vorträge und Sprechübungen**—A course dealing with the geography, culture, history, legends, customs and manners of Germany. Especially designed to supplement the work of those who intend to become teachers of German. Two hours attendance. Two hours credit. Second semester. Dr. Schrag

#### COURSES PRIMARILY FOR GRADUATES

##### MINORS

Courses 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 in this department may be taken as minors, but students may select minors from other departments. (See introductory remarks.)

##### MAJORS

**21. Phonetics**—The work is based mainly upon Sievers' *Phonetik*. One hour attendance. One hour credit. First semester.

Professor Grumann

**22. Old High German**—Selections from the older literature. Prose and verse. One hour attendance. One hour credit. Second semester.

Professor Grumann

**22a. Middle High German**—Selections from the *Nibelungenlied*, *Walther von der Volgelweide*, *Hartman von Aue*, etc. Transition stages between the Old and the New High German. Two hours attendance. Two hours credit. Second semester. Professor Grumann

**23. Gothic**—Grammar and readings. The language with respect to its phonology, etymological connections and inflectional system; its relation

to the other German dialects. Three hours attendance. Three hours credit. First semester. Head Professor Fossler

24. **Principles of Linguistic History**—The work is based principally upon Paul's *Prinzipien* and Strong, Logemann and Wheeler's presentation of the subject. Two hours attendance. Two hours credit. Second semester. Head Professor Fossler

24a. **History of the German Language**—Behagel, *Die deutsche Sprache*, Weise's *Unsre Muttersprache*, etc., Two hours attendance. Two hours credit. Head Professor Fossler

25-26. **Comparative Germanic Philology**—The fundamental principles of linguistic science, with special reference to the prehistoric relationship, the historical development and differentiation of English and German. Two hours attendance. Two hours credit. First and second semesters.

Head Professor Fossler

27. **Seminary in German Naturalism**—The influence of foreign literature and social forces upon German naturalism. Psychological criticism and its relation to earlier schools of criticism. One hour attendance. One hour credit. First semester. Professor Grummann

### Scandinavian Languages and Literature

Instructor Joseph E. A. Alexis

Courses 1 and 2 are so arranged that students with some previous knowledge of Swedish may attend Mondays, Wednesdays, and Fridays, on which days the grammar of the language will be especially stressed. Three hours credit.

1. **Beginning Swedish**—Elements of grammar with easy readings; sentence structure; word-building; vocabulary. Geijerstam's *Mina pojkar*. Five hours attendance. Five hours credit. First semester.

2. **Beginning Swedish**—1 continued. Mauritzson's *Rättskrivningslära*. Modern narrative prose. Selma Lagerlöf's *En herrgårdssägen*. Conversational exercises. Five hours attendance. Five hours credit. Second semester.

3. **Advanced Swedish**—Syntax and composition. Reading: Selma Lagerlöf's *Nils Holgerssons underbara resa genom Sverige*. Runeberg's *Fänrik Ståls sägner*. Three hours attendance. Three hours credit. First semester.

4. **Advanced Swedish**—3 continued. Lectures on early Scandinavian culture. Study of the latest Swedish literature. Reading: Tegner's *Frithiofs saga*. Three hours attendance. Three hours credit. Second semester.

**5. Dano-Norwegian**—Principles of grammar; pronunciation; reading of narrative prose. Björnson's *Synnöre Solbakken*. Three hours attendance. Three hours credit. First semester.

**6. Ibsen's Brand and Peer Gynt**.—Class reading and interpretation. Two hours attendance. Two hours credit. Second semester.

### GREEK HISTORY AND LITERATURE

Head Professor Lees, Professor Dann

Candidates for the University Teachers' Certificate in this department should complete courses for a major: 1, 2, 3, 4, 5, 8, or their equivalent. One or two years of the Greek language will be found very helpful and almost essential to a thorough mastery of the Latin language.

#### GRADUATE WORK

**Master of Arts.**—Requirements vary somewhat according to the preceding work of the student, but at least three years of study in the Greek language, including courses 1, 2, 3, 4, 5, 8, or their equivalents, should be completed before proceeding to graduate work. Majors and minors are arranged with each graduate student on consultation with the instructors. The following statements may indicate in general the requirements for majors and minors:—**Majors:** At least five hours for a year of class-room work; the entire Iliad or Odyssey read in the original; one Attic author carefully read and style mastered; a thorough knowledge of the history and development of Greek literature from Homer to Aristotle; a thesis. **First Minor:** Six hours, at least, of class-room work from courses open to graduate students, supplemented by assigned library readings. **Second Minor:** One-half the amount required for a first minor.

### Greek Language

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. Elementary Greek**—Essential facts of the language; simple exercises and easy readings. Especially for those who have a good Latin foundation. This course, together with course 2, accomplishes in one year about the same amount of work as courses 1a, 2a, 3, 4 (all three-hour studies), and makes it possible for strong students to take third year Greek (Course 5), after one year's preparation. Five hours attendance. Five hours credit. First semester. Head Professor Lees

**1a. Beginners' Greek**—Inflections; conjugations; simple exercises in reading and composition. Three hours attendance. Three hours credit. First semester. Head Professor Lees, Professor Dann

2. **Elementary Greek**—Course 1 continued. Xenophon's *Cyropaedia*. Simple composition exercises. (See Course 1.) Five hours attendance. Five hours credit. Second semester.

Head Professor Lees

2a. **Beginners' Greek**—Course 1a continued. The Greek reader; short selections from Greek literature and history. Three hours attendance. Three hours credit. Second semester.

Head Professor Lees, Professor Dann

2b. **The Greek in English**—A study of English words derived from the Greek language. Aims to give such mastery of elementary Greek that the student is able to read Xenophon's *Anabasis* (Course 3) the following semester. Five hours attendance. Five hours credit. Second semester.

Head Professor Lees

3. **Xenophon's Anabasis**—Selections from Books I-IV, with prose composition. Parallel and supplementary readings from standard histories of Greece. Three hours attendance. Three hours credit. First semester.

Professor Dann

4. **The Iliad**—Books I, II, and VI. Introduction to the Epic dialect and the Homeric hexameter; practice in metrical reading. Three hours attendance. Three hours credit. Second semester.

Professor Dann

5. **The Odyssey**—Three books read consecutively; sight reading from selected passages of the first twelve books. Literary study of the whole poem from the English translation. Three hours attendance. Three hours credit. First semester. Prerequisite: Courses 1 and 2 or 1a, 2a, and 3.

Head Professor Lees

8. **Plato**—The *Apology* and *Crito*. Survey of Greek philosophy. Socrates and his teachings. Three hours attendance. Three hours credit. Second semester.

Head Professor Lees

#### FOR UNDERGRADUATES AND GRADUATES

9. **The Greek Drama**—**Aeschylus**—The *Prometheus Bound*, and one other drama in the original. A discussion of the works and literary characteristics of Aeschylus. Three hours attendance. Three hours credit. First semester 1912-1913.

Head Professor Lees

10. **Sophocles**—The *Antigone*, and one other drama read in the original. Other works of Sophocles in translations. Greek actors, costumes, and theatre. Three hours attendance. Three hours credit. Second semester 1912-1913.

Head Professor Lees

11. **Euripides**—Two dramas read in the original. Other selected dramas of Euripides read in translations. Styles and literary characteristics of Euripides. Two hours attendance. Two hours credit. First semester.

Head Professor Lees

12. **Aristophanes**—The Clouds and Frogs. Rise and development of Athenian comedy. Its relation to Roman and later comedy. Two hours attendance. Two hours credit. Second semester.

Head Professor Lees

13. **The Greek Historians**—Selected chapters from the works of Herodotus, Thucydides, and Xenophon. Two hours attendance. Two hours credit. First semester.

Head Professor Lees

16. **Lucian**—Selected dialogues. An outline history of Greek Literature from Homer to the second century A. D. Two hours attendance. Two hours credit. Second semester.

Head Professor Lees

17. **Prose Composition** (Teachers' Course in Greek Language)—Advanced course. Especially for students expecting to teach. One hour attendance. One hour credit. First semester.

Professor Dann

18. **Prose Composition**—17 continued. Second semester.

19. **New Testament Greek**—Selection from the Gospels. Two hours attendance. Two hours credit. First semester, 1912-1913.

Head Professor Lees

20. **New Testament Greek**—19 continued. Pauline Epistles. Second semester, 1912-1813.

#### **Greek History and Archaeology**

No knowledge of Greek is required in order to pursue successfully the following courses. They are open to all students in any department of the University.

31. **Greek Mythology and Folk-Lore**—Origin and significance of Greek myths, and their treatment in sculpture and painting. Two hours attendance. Two hours credit. First semester.

Professor Dann

32. **Greek History and Geography**—General survey of Greek history from the sixth century B. C. to the conquests of Alexander. Two hours attendance. Two hours credit. Second semester.

Professor Dann

33. **The History of Greek Literature from Homer to Aristotle**—Selected masterpieces of Greek literature in English translation. Lectures and library readings on the authors studied. Two hours attendance. Two hours credit. First semester.

Head Professor Lees

34. **The History of Greek Literature from Homer to Aristotle**—33 continued. Second semester. Course 33 is not a prerequisite.

Head Professor Lees

36. **Greek Archaeology and Antiquities**—Topography, architecture, theatres, temples, social customs, funeral monuments. An itinerary through Greece with lectures and illustrations from photographs and lantern slides. One hour attendance. One hour credit. Second semester.

Head Professor Lees

(For Sanskrit and Comparative Philology, see Sanskrit.)

### The Fine Arts

In the following courses in the history and criticism of art are considered, in addition to biographical and historical studies, the fundamental principles of aesthetic criticism; the form and spirit of art in relation to nature, to science, and to life; the conventions of architecture, sculpture, and painting. The courses consist of lectures and discussions in class readings, and preparation of papers on assigned topics.

**40. The Interpretation of Art**—This course is intended to help students to a sound criticism and appreciation of works of art. It aims to cultivate the aesthetic sense by discussion of the principles and qualities of art and by practice in interpreting pictures, sculpture, architecture and decorative designs. Examples are taken from various periods and schools of art. Two hours attendance. Two hours credit. First and second semesters.

Professor Dann

**41. History of Italian Art**—Paintings and sculpture, from the earliest times to the Renaissance. Three hours attendance. Three hours credit. First semester.

Professor Dann

**42. History of Italian Art**—41 continued. The times of Leonardo da Vinci, Michelangelo, Raphael, and their successors. Three hours attendance. Three hours credit. Second semester.

Professor Dann

**43. Representative Painters of the Dutch and Flemish Schools**—Studies in portrait and landscape painting. Three hours attendance. Three hours credit. First semester.

Professor Dann

**44. Modern Painting**—A study of the art of the nineteenth century in France, England and America. Two or three hours attendance. Two or three hours credit. Second semester.

Professor Dann

**45. Cathedral Architecture**—A study of typical and famous churches in Italy, France, Germany, and England. The principles of architectural construction and decoration are considered, as well as the original and the developed early Christian, Romanesque, and Gothic styles. Two hours attendance. Two hours credit. First semester.

Professor Dann

**46. Modern Architecture**—The architecture of the Renaissance is taken up and discussed, including the points wherein it resembles or differs from classic architecture. The study and criticism of modern buildings of architectural pretensions, and some consideration of the problems and conditions of modern architecture. Two hours attendance. Two hours credit. Second semester.

Professor Dann

**HISTOLOGY AND EMBRYOLOGY**

Professor Willard, Mr. Wells

These courses take up vertebrate structure and development from the comparative standpoint and are therefore illustrative throughout of the structural responses to the general factors of evolution. Course 1 is especially adapted to bring out biological facts of wide application and may be more profitably taken by students with only a general biological preparation than the other courses. Courses 11 and 12 may be adapted to the needs of the general science teacher as an aid to his preparation in physiology. Course 14 will in like manner be adapted to the student of psychology who desires a broader basis on which to place the study of human brain structure.

All courses require the equivalent of the general courses in Zoology and for course 14 comparative vertebrate anatomy and vertebrate embryology are advised.

All the courses offered in this department are of the nature of advanced courses in the field of the biological sciences and may be taken by graduate students who are candidates for higher degrees.

**COURSES FOR GRADUATES AND UNDERGRADUATES**

**1. General Vertebrate Embryology**—Lectures with text-book for collateral reading covering the field of vertebrate embryology. The laboratory work consists of the study of individual series of chick and pig with additional demonstrations from the shark and frog embryos. With some additional expenditure of time the student may do more of the preparation himself and retain in his possession complete sets of the embryos studied. Two hours attendance. Four or eight hours laboratory. Three or four hours credit. First semester. (If taken with course 11, eight hours laboratory first half first semester, four hours credit.)

Professor Willard, Mr. Wells

**2. Special Vertebrate Embryology**—For those who desire to carry the study of course 1 into some special field or extend it to the later stages of development, this course will be arranged for individually and may be taken as a two-hour course or more according to time given it. It offers the necessary preparation for research work in embryology.

Professor Willard

**4. Comparative Vertebrate Anatomy**—A course providing a broad comparative basis for any subsequent work in embryology, microscopical or gross anatomy. In a knowledge of their evolution the student has an explanation for the distinctive structures of the human body. The adapta-

tion of structure to function, the significance of rudimentary organs and the parallel between evolution and individual development, are fully demonstrated in laboratory study. A cartilaginous fish, an amphibian and a mammal together with prepared dissections from other forms represent the material used. Anatomical technic is demonstrated to a certain extent in the methods of preservation, injection of blood vessels and the mounting of permanent dissections. A general course in Zoology is a prerequisite. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester. Professor Willard and Assistant

**11. General Histology**—This course introduces the subject of the finer cell structure of organs through a study of primary tissues. This is approached from the embryological side so the student sees the process as well as the results of differentiation, giving the subject a broader significance. Arranged to follow a two-hour course in embryology. Two hours attendance. Eight hours laboratory. Second half of first semester. Two hours credit. Professor Willard, Mr. Wells

**11a. General and Dental Histology**—A course arranged for dental students to cover the histology of tissues and the special histology and embryology of the teeth. Open only to dental students and not accepted as a substitute for any other course. Eight hours laboratory, quiz and recitation. First semester. Professor Willard, Mr. Harvey

**12. Organology**—The finer structure of the organs of the vertebrate body. The cell structure, blood and nerve supply and functional changes, as far as expressed structurally, are studied by means of microscopic mounts. Three hours attendance. Four hours laboratory. Three hours credit. Second semester. (This course must be preceded by course 11.) Professor Willard, Mr. Wells

**14. Vertebrate Nervous System**—Structural evolution of the vertebrate brain, illustrated by dissections and sections. The object is to point out the modifications presented by the brains in the groups of vertebrates in connection with certain biological factors, such as the rise or disappearance of sense organs explaining such changes. A general course in Zoology is a prerequisite and a course in Vertebrate Anatomy is strongly recommended. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Professor Willard.

## HISTORY

(See American History and European History)

**JURISPRUDENCE AND PUBLIC LAW**

Professor Hastings, Professor Maxey

## GRADUATE WORK

Master of Arts—Complete courses, or major or minor courses, are arranged upon application.

Master of Laws—A candidate for the degree of Master of Laws must have received the degree of Bachelor of Laws from this University or from some approved law school, must complete an additional year's work of at least 16 hours a week in the College of Law or the Graduate School or both, and must present a suitable thesis embodying the result of original investigation and research. Before such student shall be entitled to the degree he must complete all the courses, elective as well as required, offered in the College of Law for the degree of Bachelor of Laws.

**Jurisprudence**

1. **History and System of the Common Law**—General survey of the legal system of English-speaking countries; courts, their organization and jurisdiction. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. Professor Hastings

2. **Roman Law**—History and Institutes. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. Professor Maxey

*Given in 1911-1912 and alternate years.*

3. **Analytical and Historical Jurisprudence**—Introduction to legal theory. Credited in the College of Law. Three hours attendance. Three hours credit. Second semester. Professor Maxey

**Public Law and Diplomacy**

1. **American Constitutional Law**—Cases on constitutional law. Credited in the College of Law. Three hours attendance. Three hours credit. First semester. Professor Hastings

2. **American Constitutional Law I**—Continued. Cases on constitutional law. Prerequisite: Course 1. Credited in the College of Law. Three hours attendance. Three hours credit. Second semester. Professor Hastings

3. **American Administrative Law I**—Law of public officers; extraordinary legal remedies. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. Professor Maxey

4. **American Administrative Law II**—Continued. Taxation. Credited in the College of Law. Two hours attendance. Two hours credit. Second semester. Professor Maxey

**6. International Law I**—Credited in the College of Law. Three hours attendance. Three hours credit. First semester. Professor Maxey

**7. International Law II**—Advanced course. Specific problems of international law. Two hours attendance. Credited in the College of Law to students who do not count International Law I. Two hours credit. Second semester. Professor Maxey.

**8. European Diplomacy**—Two hours attendance. Two hours credit. First semester. Professor Maxey

*Given in 1911-1912 and alternate years.*

**9. Comparative Constitutional and Administrative Law**—Comparative study of public law of the United States, England, Canada, and Australia. Two hours attendance. Two hours credit. First semester. Professor Maxey

*Given in 1912-1913 and alternate years.*

**10. American Diplomacy**—Organization. Main diplomatic controversies. Two hours attendance. Two hours credit. First semester. Professor Maxey

**11. Seminary on Consular Service**—Admission upon consent of the instructor. Two hours attendance. Two hours credit. Second semester. Professor Maxey

*Given in 1912-1913 and alternate years.*

## MATHEMATICS

Head Professor Davis, Professor Candy, Professor Engberg, Associate Professor Brenke, Mr. Johnson, Miss Runge,  
Miss Bennett, Miss Holmes

### GRADUATE WORK

The candidate for an advanced degree, whether mathematics be a major or a minor, must have completed mathematics 1, 2, 3, 4, and 7.

### Master of Arts

**Second Minor:** Differential Equations, Advanced Analytic Geometry, courses 5, 6, 22, and 23.

**First Minor:** In addition to the above, courses 9, 9a, 20, and 21.

**Major:** The additional requirements are: (1) Selections, approved by the head of the department, from such courses in advanced mathematics, mathematical physics, astronomy or engineering as are offered during the student's residence; (2) a thesis.

### Doctor of Philosophy

The candidate must have not only an extended general knowledge of mathematics on the basis of the requirements for the degree of Master of Arts, but must also devote special attention to some line of modern research, consulting both standard treatises and the various mathematical journals. The results of this work are to be presented and discussed from time to time in the mathematical seminary and finally embodied in a thesis.

### Library Facilities

The department has a carefully selected library to which additions are constantly made. Leading current periodicals are kept on file, and of these there are several complete sets.

Seminary: The instructors and advanced students meet the first and third Wednesday of each month, 4.30 to 6.00 p.m., for the discussion of current literature, the presentation of the results of investigations, and the solutions of assigned problems. Open to all students who have had one year of mathematics and who are recommended by their instructors.

Requirements for the University Teachers' Certificate—Major (23 hours), courses 1, 2, 3, 4, 9, 9a, and if possible 8; major (17 hours), courses 1, 2, 3, 8, or 9 and 9a; minor (17 hours), as for 17-hour major; minor (12 hours), courses 1, 2, 8, and, if possible, 9 and 9a. It is very desirable that prospective teachers of Mathematics should add all or part of courses 5, 7, 20. They will thus get ideas that will vivify their teaching. It is also desirable that Physics should accompany Mathematics even if to do so the amount of Mathemattics taken be diminished. Three "points" entrance credit in Algebra and three points in Geometry are necessary to enter course 1.

### COURSES

**A. Solid Geometry**—Prerequisite: Five points high school credit. Five hours attendance. Five hours credit. First semester.

**1. Algebra and Plane Trigonometry**—Prerequisite: Six points high school credit. Five hours attendance. Five hours credit. First and second semesters.

Professor Candy, Associate Professor Brenke, Mr. Johnson,  
Miss Runge, Miss Bennett, Miss Holmes

**2. Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

Professor Candy, Associate Professor Brenke, Mr. Johnson,  
Miss Runge, Miss Bennett, Miss Holmes

3. **Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

Professor Candy, Professor Engberg,  
Associate Professor Brenke, Mr. Johnson

4. **Calculus**—3 continued. Five hours attendance. Five hours credit. First and second semesters.

Head Professor Davis, Professor Candy,  
Professor Engberg, Associate Professor Brenke

4a. **Calculus**—4 continued. Two hours attendance. Two hours credit. Second semester. Head Professor Davis.

5. (formerly course 7). **Differential Equations**—Prerequisite: Course 4. Three hours attendance. Three hours credit. First semester.

Professor Candy

6 (formerly course 8). **Differential Equations**—5 continued. Second semester.

7 (formerly course 6). **Theory of Probability**—Three hours attendance. Three hours credit. Second semester. Professor Engberg

8 (formerly course 13). **College Algebra**—Primarily for those intending to teach mathematics. Two hours attendance. Two hours credit. Second semester. Professor Engberg

9. (formerly course 25). **History of Mathematics**—Two hours attendance. Two hours credit. Second semester. Professor Candy

9a. **Mathematical Pedagogy**—The application of the principles of teaching Mathematics in actual class work in the Teachers College Training School. One hour credit. First and second semesters.

Professor Candy

10 (formerly course 15). **Advanced Algebra**—Three hours attendance. Three hours credit. First semester. Professor Engberg

11 (formerly course 16). **Advanced Algebra**—10 continued. Second semester.

12 (formerly course 19). **Theory of Functions**—Three hours attendance. Three hours credit. First semester. Associate Professor Brenke

13. (formerly course 20). **Theory of Functions**—12 continued. Second semester.

14. **Elliptic Functions**—Three hours attendance. Three hours credit. First semester. Head Professor Davis

15. **Elliptic Functions**—14 continued. Second semester.

16. (formerly course 33). **Harmonic Analysis**—Applied to the Partial Differential Equations of Mathematical Physics. Source of these equations. Methods of solution. Theory of Fourier's series. Other series of normal functions. Solutions in series of cylindrical, zonal, spherical and elliptic

- soidal harmonics. Three hours attendance. Three hours credit. First semester. Associate Professor Brenke
- 17 (formerly course 34). **Harmonic Analysis**—16 continued. Second semester.
18. (formerly course 23). **Mathematical Logic**—Three hours attendance. Three hours credit. First semester. Head Professor Davis
19. **Principles of Mathematics**—Three hours attendance. Three hours credit. First semester. Head Professor Davis
- 20 (formerly course 11). **Geometry of Position**—Three hours attendance. Three hours credit. First semester. Mr. Johnson
- 21 (formerly course 12). **Geometry of Position**—20 continued. Second semester.
- 22 (formerly course 9). **Advanced Analytical Geometry**—Prerequisite: Course 5. Three hours attendance. Three hours credit. First semester Professor Candy
- 23 (formerly course 10). **Advanced Analytical Geometry**—22 continued. Second semester.
- 24 (formerly course 17). **Modern Geometry**—Two hours attendance. Two hours credit. First semester. Professor Engberg
- 25 (formerly course 18). **Modern Geometry**—24 continued. Second semester.
- 26 (formerly course 21). **Imaginaries in Geometry**—Two hours attendance. Two hours credit. First semester. Head Professor Davis
27. (formerly course 22). **Imaginaries in Geometry**—26 continued. Second semester.
28. **Differential Geometry**—Two hours attendance. Two hours credit. First semester. Head Professor Davis
29. **Differential Geometry**—28 continued. Second semester.
30. **Vector Analysis**—Three hours attendance. Three hours credit. First semester. Head Professor Davis.
31. **Statistics**—Statistical problems. Interpretation of statistics. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. First semester. Professor Engberg
32. **Insurance**—Mathematical principles of insurance, especially of life insurance. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. Second semester. Professor Engberg

### Biometry

The mathematical theory of evolution. A mathematical analysis of botanical and biological problems. An extended knowledge of mathematics

is not necessary, although of great aid. The work is intended primarily for advanced students in the natural sciences who can apply this work to their researches, but it is open to other students.

35 (formerly course 27). **A Review of Preliminary Mathematics**—Followed by study of various frequency curves and applications to individual problems. Two hours attendance. Two hours credit. First semester.  
Professor Engberg

36 (formerly course 28). **A Review of Preliminary Mathematics**—35 continued. Studies in error correlations of frequency constants, variation, organic correlation, regression, heredity, spurious correlation and fixture of type. Two hours attendance. Two hours credit. Second semester.  
Professor Engberg

37 (formerly course 29). **Studies in Organic and Fraternal Correlation and Problems in Heredity**—One hour attendance. One to three hours credit. First semester.  
Professor Engberg

38. (formerly course 30). **Studies in Organic and Fraternal Correlation and Problems in Heredity**—37 continued. Second semester.

## MILITARY SCIENCE AND TACTICS

Captain Halsey E. Yates, Inf., U. S. A., Commandant

By the rules of the Board of Regents, all male students in the College of Arts and Sciences, the College of Agriculture, the College of Engineering, and the long-term students in the School of Agriculture are required forthwith after matriculation to take military work. The requirements cover four semesters.

The annual cadet encampment is held at such time as the Chancellor and Commandant may direct. During the encampment instruction is given in Minor Tactics.

All cadets are required to pay an annual Military fee as set forth on page 69.

### Infantry Drill

Required of all cadets except members of the Band

A1. **First Year Infantry Drill**—(a) First Battalion: practical—infantry drill and rifle practice. Four hours attendance. One hour credit. First semester. (b) Second Battalion: practical—infantry drill and rifle practice. Three hours attendance. First semester. Captain Yates

A2. **First Year Infantry Drill**—(a) First Battalion: practical—same as A1 and guard duty. Four hours attendance. One hour credit. Second semester. (b) Second Battalion: practical—same as A1. Three hours attendance. Second semester. Captain Yates

AA1. **Second Year Infantry Drill**—(a) First Battalion: practical—

same as A1 and drill-master work. Four hours attendance. Theoretical—Small Arms Firing Manual and Manual of Guard Duty. Four hours attendance per week during November, December and January. One hour credit. (b) Second Battalion: practical—same as for first battalion. Three hours attendance. Theoretical—same as for first battalion.

Captain Yates

**AA2. Second Year Infantry Drill**—(a) First Battalion: practical—same as AA1. Theoretical—field service regulations during February. Four hours per week. Lectures by Commandant. One hour credit. (b) Second Battalion: practical—same as AA1. Theoretical—same as for first battalion. Three hours attendance.

Captain Yates

**AAA1. Third Year Infantry Drill**—Second Battalion: practical—same as AA2 and drill master work. Three hours attendance.

Captain Yates

**AAA2. Third Year Infantry Drill**—Second Battalion: practical—same as AAA1. Three hours attendance.

Captain Yates

### Cadet Band

The Cadet Band is open to all male students. Cadets not in the band who desire to transfer to it may apply to the Commandant.

The band is organized as a part of the first battalion and is under military discipline at all times. One hour credit is given for each third and fourth year membership.

**B1. First Year Cadet Band**—Four hours attendance. (a) Music. (b) Practical—infantry and band drill. One hour credit. First semester.

(a) Mr. Hagenow

(b) Captain Yates

**B2. First Year Cadet Band**—B1 continued. Second semester.

**BB1. Second Year Cadet Band**—B2 continued. First semester.

**BB2. Second Year Cadet Band**—BB1 continued. Second semester.

### Elective Courses

May be taken by cadets who have completed the required courses.

**S1. Instruction of Cadets**—Drill master work. Army papers. Lectures by Commandant. Open only to selected cadets (Juniors) who have shown exceptional ability in military science. Four hours attendance. Two hours credit. First semester.

Captain Yates

**S2. Instruction of Cadets**—S1 continued. Second semester. Four hours attendance. Two hours credit.

**SS1. Instruction of Cadets**—S1 continued. Open only to selected seniors.

**SS2. Instruction of Cadets—SS1 continued.****MUSIC**

**3. Chorus Conducting**—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. The chorus gives a series of Vesper Services assisted by a string quartet. "The Messiah" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester.

Mrs. Raymopu

**4. Chorus Conducting—3 continued. Second semester.****PHARMOCOLOGY**

Professor Lyman, Instructor Day

**5. General Pharmacology**—A course designed for teachers and students of biology who wish a general knowledge of the physiological action of drugs. The greater part of the time is devoted to the experimental study of the physiological and pathological changes induced by the narcotics and habit producing drugs. No prerequisites. One to two hours attendance. Two to four hours laboratory. One to two hours credit. First semester.

Professor Lyman

**6. General Pharmacology—Continuation of 5. Second semester.****PHILOSOPHY**

Head Professor Wolfe, Professor Alexander, Professor Hinman,  
Dr. Hyde, Mr. Benson, Miss Luckey

The primary aim of work in Philosophy is to serve as an organizing discipline in a general education; and to correct the narrowness often incident to specialization. It is an efficient means for the development of breadth, balance, culture, and maturity. It lies nearer today than ever before, probably, to the various sciences, social, historical, biological, and physical, on the one hand, and to the requirements of practical life on the other. Students seeking to make this use of Philosophy may begin with either course 1, course 3, or course 4 as early as the first semester of the sophomore year, and should carry a course each semester thereafter, the complete program including both Psychology and General Philosophy. Third and fourth year students may also begin their work in Philosophy with any one of the following courses, 21, 30, 51. After the first introductory semester, courses from all sub-groups within the department are equally open to the student.

Another very important aim of the department is to aid in the profes-

sional training of teachers. Those who wish to secure the University University Teachers' Certificate must take courses 1 and 2 in Elementary Psychology.

#### GRADUATE WORK

The department as now organized has full professors representing each main division of the subject. It is well supplied with library and laboratory facilities, and is enabled to offer ample facilities for graduate work.

Major or minor courses for advanced degrees are arranged for in Psychology, in Ethics, in Logic and Metaphysics, and in History of Philosophy. No special statement of the number of hours required either for the degree of Master of Arts or that of Doctor of Philosophy need be made. Courses are outlined for each individual case in conformity with the general regulations laid down by the Graduate Faculty. Owing to the nature of philosophy as a fundamental discipline in touch with all sciences, graduate students pursuing majors in other specialties will often find a minor in Philosophy of large value.

#### COURSES PRIMARILY FOR UNDERGRADUATES

1. **Elementary Psychology**—A general introductory course, including the elements of descriptive, physiological, and experimental psychology. Designed for students who desire more than one semester in psychology. A good foundation is laid in two semesters for further studies in psychology, philosophy, or education. Botany 1 or Zoology 1 should precede or accompany this course. Not open to first year students. Required for the Teachers' Certificate. Three hours attendance. Two hours laboratory. Three hours credit. First semester. Head Professor Wolfe

2. **Elementary Psychology**—1 continued. Second semester.

3. **Elementary Psychology**—A briefer course in general psychology for students wishing the minimum requirements in this field. Not open to first year students. Three hours attendance. Two hours laboratory. Three hours credit. Second semester. Head Professor Wolfe

4. **Logic, Deductive and Inductive**—Practice in logical analysis, the use of syllogism and inductive methods, and detection of fallacies. Three hours attendance. Three hours credit. First and second semesters.

Professor Hinman

#### I. Psychology

11. **Experimental Psychology**—Chiefly laboratory work. The student learns to manipulate all standard apparatus, and becomes somewhat familiar with present laboratory problems. Methods of investigation and of dealing with data are considered. In the second semester about half of

the time is devoted to intensive investigation of some problem begun early in the year. Two hours credit. First semester. Head Professor Wolfe

12. **Experimental Psychology**—11 continued. Second semester.

13. **Genetic Psychology**—A comparative study of the animal mind. Readings and discussions on the methods of investigation, materials accumulated, and conclusions reached. Beginning with the lowest animals, evidences of intelligence are sought in several representative groups. Effort is made to realize the resemblances and differences between the mind of the higher animals and that of man. Two hours attendance. Two hours credit. First semester. Head Professor Wolfe

14. **Genetic Psychology**—A study of the child mind in development. Essentially a course in the evolution of the individual. The class surveys the material of "child study" on infancy, childhood, and adolescence, reviews normal psychology, and studies old age. A few weeks are given to certain typical forms of abnormal mind, arrested development and genius. Two hours attendance. Two hours credit. Second semester.

Head Professor Wolfe

16. **Educational Psychology**—A practical study of the factors which influence the development of body and mind. May be applied on required hours in education. Two hours attendance. Two hours credit. Second semester.

Head Professor Wolfe

## II. Ethics

21. **Introductory Ethics**—A study of the fundamental principles of morals. Two hours attendance. Two hours credit. First semester.

Professor Alexander

23. **Advanced Ethics**—The object of this course, running for two years, is the intensive study of dominant types of modern ethical systems. Each semester a section of the history of recent ethical debate is chosen for study, and the relevant classical works are analyzed. During 1912-1913 the development of intuitionism, utilitarianism, and idealism will be examined, involving familiarity with the writings of Martineau, Bentham, Mill, Sedgwick, Kant, Green, Bradley and Taylor. Two hours attendance. Two hours credit. First semester.

Professor Hinman

24. **Advanced Ethics**—23 continued. Second semester.

25. **Advanced Ethics**—During 1911-1912 the object of study will be the evolution of man's moral nature and conduct, and the evolutionary theory of ethics. The relation of this theory to utilitarianism and to idealism will be developed, and attention given to the writings of Darwin, Spencer, Stephen, Sutherland, Westermarck, Alexander, Wundt, and Hobhouse. Two hours attendance. Two hours credit. First semester.

Professor Hinman

26. **Advanced Ethics**—25 continued. Second semester.

### III. Metaphysics and Philosophy of Science

30. **Introduction to Philosophy**—Develops the philosophical conception of Reality as Mind, and applies it in some detail to the interpretation of the system of the sciences. Deals with such ruling ideas as those of matter, force, life, heredity, evolution, purpose, mind, reason, God. Designed to meet the needs of the scientific and general student, and to serve also as a preparation for further work in philosophy. Lectures. Three hours attendance. Three hours credit. First and second semesters.

Professor Hinman

30a. **Philosophical Themes**—Students who have taken or are taking course 30 may mature themselves in this subject and secure additional credit by preparing papers in connection with assigned topics, and carrying out the library work which these involve. No further class attendance. One to three hours credit.

Professor Hinman

33. **Advanced Metaphysics**—A systematic study of contemporary metaphysical thought, based upon an analysis of the debate between the absolute idealists and their recent critics. May be carried profitably by the student who has completed course 30. Three hours attendance. Three hours credit. First semester.

Professor Hinman

34. **Advanced Metaphysics**—33 continued. Second semester.

37. **Logic of Science**—Deals with the nature of conception, judgment, and inference, with reference both to general philosophical results and to the methodology of science. Bosanquet's larger *Logic* is the basis of the course. Two hours attendance. Two hours credit. First semester.

Professor Hinman

38. **Logic of Science**—37 continued. Second semester.

### IV. Aesthetics

41. **Philosophy of Criticism**—Origin and development of the different types of artistic expression; the formation and significance of art traditions; analysis of such conceptions as naturalism, symbolism, realism, idealism, classicism, romanticism, etc. Two hours attendance. Two hours credit. First semester.

Professor Alexander

42. **Philosophy of Criticism**—41 continued. History of aesthetic criticism. Aristotle's *Poetics*, Longinus *On the Sublime*, and other treatises, are read in English. (Course 41 not necessarily prerequisite.) Two hours attendance. Two hours credit. Second semester. Professor Alexander

### V. History of Philosophy

50. **Humanism**—Historical phases of the conception of culture: The

Graeco-Roman ideal of enlightened living; humanism of the Italian Renaissance; the 18th century "Enlightenment" and political humanitarianism; the metaphysical humanisms of today. Two hours attendance. Two hours credit. Second semester.

Professor Alexander

51. **History of Philosophy**—Survey of the principal philosophical systems in their development and relation to the political and social conditions of their times. Three hours attendance. Three hours credit. First semester.

Professor Alexander

52. **History of Philosophy**—51 continued. Second semester.

[53. **Greek Philosophy**—The Pre-Socratic Period: The Mediterranean races; origins of civilization; rise of European thought, religious, mythical, scientific, and speculative, with especial reference to the social and physical conditions of ancient life. Two hours attendance. Two hours credit. First semester.

Professor Alexander]

*Not given in 1911-1912.*

[54. **Greek Philosophy**—Socrates and Plato. Two hours attendance. Two hours credit. Second semester.

Professor Alexander]

*Not given in 1911-1912.*

53a. **Greek Philosophy**—Aristotle and the Post-Aristotelian Period: The ethical schools; progress of Science; later development of Greek religion. Two hours attendance. Two hours credit. First semester.

Professor Alexander

54a. **Greek Philosophy**—Influence of Greek Thought: Especial attention to Lucretius, Cicero, and St. Augustine. Two hours attendance. Two hours credit. Second semester.

Professor Alexander

[55. **Patristic and Scholastic Philosophy**—The thought of the Church Fathers and the Schoolmen of the Middle Ages.]

*Not given in 1911-1912.*

[56. **Patristic and Scholastic Philosophy**—55 continued.]

*Not given in 1911-1912.*

57. **German Idealism**—Kant and Hegel. First semester devoted to the Critical philosophy. Brief study of background of Criticism in English Empiricism; careful study of teachings of Kant's three *Critiques*. Two hours attendance. Two hours credit. First semester. Professor Hinman

58. **German Idealism**—57 continued. Development of Kantian doctrine in its idealistic phases by his successors briefly traced; culmination of post-Kantian Idealism studied at length in Hegel's Smaller Logic. Second semester.

Professor Hinman

57a. **English Empiricism in the Nineteenth Century**—Mill and Spencer. After a brief study of Hume, the development of Empiricism will be

traced in the Associational school, and its culminating phases in the philosophical views of John Stuart Mill will be analyzed in detail. Two hours attendance. Two hours credit. First semester.

Professor Hinman

**58a. English Empiricism in the Nineteenth Century**—57a continued. Spencer's Synthetic Philosophy. Second semester.

## VI. History and Philosophy of Religion

**60. Philosophy of Religion**—Nature and meaning of religion and grounds of religious belief in view of the rational interpretation of the universe made by modern science and philosophy. Origin and evolution of religion, the psychology of religion, arguments for the existence of God, modern conceptions of God and Immortality. One hour attendance. One hour credit. Second semester.

Professor Hinman

**[61. History of Religion]**—After an examination of the origin of religion and its form among primitive peoples its history is traced at some length among the Aryans, and more briefly among Chinese, Japanese, Egyptians, Babylonians, and Semitic races. The greater religions are analyzed in order to explain and evaluate the philosophical views which they involve. Three hours attendance. Three hours credit. First semester.

Professor Hinman]

*Not given in 1911-1912. Given in 1912-1913.*

**[62. History of Religion Among the Hebrews (briefer course)]**—Essentially a library course on the development of Israel's religious ideals, as reflected in the Old and New Testaments, and interpreted in the spirit and by the methods of the higher criticism. Open only to students who have had course 30 or course 61, or other work of equal value for training to critical and constructive thinking in this field. Lectures, conferences, and readings. Three hours credit. Second semester.

Professor Hinman]

*Not given in 1911-1912. Given in 1912-1913.*

**63. History of Religion Among the Hebrews (fuller course)**—A systematic study of the religious history and literature of Israel, with the aid of the philosophical, scientific, and literary auxiliaries now available. The course will be open to students who have not had previous philosophical work; for the best results, however, it should be either preceded, accompanied, or followed by the introduction to philosophy (course 30). Lectures and readings. Two hours attendance. Two hours credit. First semester.

Professor Hinman

**64. History of Religion Among the Hebrews (fuller course)**—63 continued. Second semester. To alternate with courses 61 and 62.

*Given in 1912-1913.*

65. **Advanced Reading in History and Philosophy of Religion**—A library course on the religious literature, philosophy and institutions of the culture nations, both oriental and occidental. Open only to students who have carried course 30 and either courses 61 and 62 or 63 and 64. One to three hours credit.

Professor Hinman

#### PRIMARILY FOR GRADUATES

71. **Psychological Seminary**—The year will be given to the study of some problem, or group of closely allied problems, to be definitely determined by the interests of the members of the seminary. Seniors who have had 1 and 2, and who are taking 11 or 12 may elect this course. During the year 1911-1912 the Psychology of Movement, or the Psychology of Attention may be considered. Two hours attendance. Two hours credit. First semester.

Head Professor Wolfe

72. **Psychological Seminary**—71 continued. Second semester.

73. **Ethical Seminary**—Study of special problems in ethics. Two hours attendance. Two hours credit. First semester.

74. **Ethical Seminary**—73 continued. Second semester.

75. **Seminary in Logic and Metaphysics**—Two hours attendance. Two hours credit. First semester.

Professor Hinman

76. **Seminary in Logic and Metaphysics**—75 continued. Second semester.

#### PHYSICAL EDUCATION

Professor Clapp, Assistant Professor Stiehm, Adjunct Professor Gittings,  
Instructors Beghtol and Field, Miss Day

#### GENERAL INFORMATION

The practice courses in physical education are open, as electives, to men. No students may take work in the department without regular registration.

Members of all classes in physical education and of all University athletic teams are required to take a physical examination at the beginning of the college year or at the beginning of the semester in which that training begins.

Unless excused, all women are required to take physical training four days per week for the first two years.

The general health of all women is carefully looked after by the director of the women's gymnasium and the examining physician for women. Special medical gymnastics is given to those whose health does not permit them to take the general class work.

Men are required to wear gray Turner trousers, navy blue sleeveless

jerseys and heelless shoes. Women are required to wear uniform gymnasium suits, which should under no conditions be ordered before consulting the instructor.

#### TEACHERS' CERTIFICATE IN PHYSICAL EDUCATION

The University Certificate in Physical Education is granted to graduates of the University who have satisfied all the special requirements given below and whose work in general, special and professional subjects has been of a high order. Graduates from other universities and from colleges of high rank may receive this certificate upon the same terms as graduates of this institution. Students not graduates of this University or of institutions of equal rank, who complete this course, receive statements to that effect and also credit for their work toward a degree. Requirements: Rhetoric 1 and 2; Chemistry 1 and 2; Zoology 1, 2, 7; Anatomy 15 and 16; Physiology 1 and 2; Philosophy 1 and 2; Physical Education (theory) 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 17, 18, 20, 37, and 38 for both men and women (except 37, 38, and 5, which is not required for women); Physical Education (practice) 13, 14, 15, 16, 31, and 32 for men, 21, 22, 23, 24, 33, and 34 for women. Ability to use the common strokes in swimming is also required. The professional work for the certificate should be taken with other undergraduate studies.

#### Physical Education—Theory

1. **Hygiene**—Advantages of regular exercises. Bathing and clothing. Care of the eye. Respiration and circulation. Digestion: foods, their value, source and digestibility. Stimulants and narcotics. Water supply. Ventilation, heating, draining, plumbing, sewage. Special physiology and personal purity. Two hours attendance. Two hours credit. First semester.  
Professor Clapp

2. **Physical Diagnosis**—Theory and practice of normal and abnormal physical signs of the thoracic organs. Two hours attendance. Two hours credit. Second semester.  
Professor Clapp

3. **Anthropometry**—History. Measurements, their statistical and diagnostic value. Practice in taking and recording measurements and in making charts. Laws of human proportion. Average, mean, and ideal types. Analysis and critical inspection of measurements and personal histories for determining fitness for gymnastic work. Two hours attendance. Two hours credit. First semester.  
Adjunct Professor Gittings

*Not given in 1911-1912.*

4. **Applied Anatomy**—Muscles and their relation to common gymnastic and athletic movements. Presupposes a knowledge of anatomy. Two hours attendance. Two hours credit. Second semester.  
Adjunct Professor Gittings

**5. General Athletic Training**—Theory of training for all branches of athletics. Ancient and modern methods. Diet, sleep, bathing and rubbing. One hour attendance. One hour credit. First semester.

Professor Clapp

**6. Emergencies**—First aid treatment in case of accidents, such as fractures, dislocation, wounds, hemorrhages, poisoning and drowning. Bandaging, nursing, and general care of the sick. Recitations and demonstration. One hour attendance. One hour credit.

Adjunct Professor Gittings

**7. Kinesiology**—Aims, varieties and effects of gymnastic movements. Swedish and German methods. Gymnastic terminology. Hygienic, educative and recreative exercises. Two hours attendance. Two hours credit. First semester.

Adjunct Professor Gittings

**8. Physiology of Bodily Exercise**—Physiological features of training, breathlessness, fatigue and stiffness. Testing respiratory movements and circulation before and after exercises. Two hours attendance. Two hours credit. Second semester.

Professor Clapp

**10. Medical Gymnastics and Prescription of Exercise**—Corrective gymnastics as applied to abnormal conditions. Special lectures to women on pelvic anatomy. Massage. Theory and practice. Two hours attendance. Two hours credit. Second semester. Adjunct Professor Gittings

**11. History and Literature of Physical Education**—Ancient and modern literature covered by assigned readings, digests, reports, discussions and lectures. One hour attendance. One hour credit. First semester.

Adjunct Professor Gittings

**12. Methods and Equipment of a Department**—Gymnasium and athletic field; construction, equipment, organization, rules and management. One hour attendance. One hour credit. Second semester.

Professor Clapp

**17. Methods in Teaching**—(Consult instructors before registering.) Two hours attendance. Two hours credit. First semester.

Men, Professor Clapp; women, Adjunct Professor Gittings

**18. Methods in Teaching**—17 continued. Second semester.

**20. Track Athletics**—(Consolidation of previous courses known as Physical Education 19 and 20), Theory and practice. Technique of track and field athletics. Systematic preparation for indoor and outdoor athletic events. Two hours theory and two hours practice. Two hours credit. Second semester.

Professor Clapp

**35. Hygiene**—A thorough course in Hygiene planned for students of the Teachers College and others who expect to teach the subject or to have charge of the sanitation of public school buildings. For information in

regard to course see Teachers College announcement. Two hours attendance. Two hours credit. Professor Clapp

36. **Hygiene**—Course 35 continued. Second semester.

37. **Football**—Theory and practice. Sphere in mental, physical and social life. How to play football, including the rudiments of the game as well as the details of each position. Rules. Alterations in rules. Training. History of football.

Library readings, written reports, laboratory work and lectures. Two hours attendance. Two hours laboratory. First semester.

Assistant Professor Stiehm

38. **Football**—37 continued. Second semester.

39. **Playgrounds**—Philosophy of play. Aims and purposes of the playground. Organization, construction, equipment, administration and management. Playground activities; games, festivals, and social work. Lectures, readings, reports and practice. Two hours attendance. Two hours credit. First semester. Adjunct Professor Gittings

40. **Playgrounds**—39 continued. Second semester.

### **Physical Education—Practice**

#### MEN—FIRST YEAR

13. **Gymnastics**—(a) Light Gymnastics, free-hand body building. Dumb bells and gymnastic dancing.

(b) Heavy Gymnastics—elementary apparatus work and parallel bars, side and long horse, buck, vaulting and horizontal bars and jumping.

(c) Recreative Gymnastics—Games and contests. Boxing and wrestling. Three hours attendance. One hour credit. First semester.

Mr. Field

14. **Gymnastics**—13 continued. (a) Light Gymnastics—Continuation of previous semester's work and Indian clubs, floor body building and bar bells.

(b) Heavy Gymnastics—Continuation of previous semester's work.

(c) Recreative Gymnastics—Continuation of previous semester's work. Second semester.

Mr. Field

Students who have registered and received credit for courses 13 or 14 will not hereafter be allowed to re-register for the same course.

#### MEN—SECOND YEAR

15. **Gymnastics**—Advanced light and heavy gymnastics. Games and contests. Wrestling and fencing. Course open to men who have completed Physical Education Courses 13 and 14 or their equivalent. Two or three

hours attendance. Two-thirds or one hour credit. First semester.

Professor Clapp

16. **Gymnastics**—15 continued. Second semester.

31. **Leaders' Class**—Members must be proficient in all forms of gymnastics. Consult instructor before registering. One hour credit. First semester.

Professor Clapp

32. **Leaders' Class**—31 continued. Second semester.

#### WOMEN—FIRST YEAR

21. **Light Gymnastics**—Swedish gymnastics. Correction of improper walking and standing positions. Elementary dancing and gymnastic games. Lectures in personal hygiene. Four half hours' attendance. One hour credit. First semester. Adjunct Professor Gittings, Instructor Beghtol

22. **Light Gymnastics**—21 continued. Elementary work on balance beams, spring boards, stall bars, booms, ropes, etc. Four one-half hours' attendance. One hour credit. Second semester.

Adjunct Professor Gittings, Instructor Beghtol

#### WOMEN—SECOND YEAR

23. **Light Gymnastics**—Military marching. German gymnastics, dumb bells, wands, and Indian clubs. Elementary exercises on horse, parallel bars, flying rings and buck. Athletic and gymnastic games. Folk and artistic dancing. Four half-hours' attendance. One hour credit. First semester.

Adjunct Professor Gittings, Instructor Beghtol

24. **Light Gymnastics**—23 continued. Basket ball, indoor baseball, field hockey and tennis. Four half-hours' attendance. One hour credit.

Adjunct Professor Gittings, Instructor Beghtol

33. **Light and Heavy Gymnastics**—(For Normal Training students only.) Advanced Swedish gymnastics on stall bars, boom, parallel bars, ropes, poles, etc. Swedish song-games, folk and aesthetic dancing. Indoor baseball, tennis, basketball and swimming. Six hours attendance. One hour credit.

Adjunct Professor Gittings

34. **Light and Heavy Gymnastics**—(For Normal Training students only).—33 continued. Advanced work with dumb bells, wands and Indian clubs. Advanced apparatus work on horse, parallel bars, flying and traveling rings, spring board, buck, etc. Fencing. Six hours attendance. One hour credit.

Adjunct Professor Gittings

#### PHYSICS

Professor Skinner, Professor Moore, Professor Almy, Assistant Professor Tuckerman, Mr. McComb

Two distinct series of courses are now offered in physics to undergradu-

ates. They differ in the requirements for admission and in the thoroughness of the work.

The first series (1, 2, 3, 4) is prescribed for engineering students. It culminates in 5 and 6 for electrical engineering, with, in addition, 17 and 18 for those taking a major in physics in the College of Arts and Sciences. Courses 1a, 2a, 3a, and 4a, are mainly 1, 2, 3, and 4, respectively, without the laboratory work.

The second series (11, 12, 13, 14) is designed for those desiring to study physics from a more purely philosophical—less mathematical—standpoint, and in its relation to other sciences and to natural phenomena. It is open to the students of any college who have *completed* their college entrance requirements. (These courses will be given first in 1912-1913.)

For the University Teachers' Certificate, courses 1, 2, 3, 4 (three hours each) 15 and 16; or 11, 12, 13, 14, 15, and 16 are required for a major in physics. For a minor 15 and 16 may be dropped from the requirement for a major.

#### GRADUATE WORK

For graduate students instruction is given in both theoretical and experimental physics. Lectures are given in the general theoretical branches and are offered on special topics in which the lecturer is immediately interested.

Experimental research is being carried on at present along the following lines: The normal cathode current density in gases; the normal cathode fall in gases as affected by their molecular weight; the current from fine wires in gases; magnetic rotation and ellipticity by reflection; anomalous rotation and ellipticity in optically active solutions; phase change by reflection; reflection from metals compared with theory; the magnetic separation of spectral lines.

In theoretical physics courses 21, 22, 23, 24 are given in a sequence of four semesters with four hours lecture weekly, while the others are given as the occasion demands.

For the degree of Master of Arts the candidate may offer simply a major in physics, but is advised to offer also a minor in mathematics. In addition to a completed investigation a fair knowledge of theoretical physics is expected. For attaining this degree two years graduate work is usually necessary.

For the degree of Doctor of Philosophy the same progress beyond the Master's as that represents over the baccalaureate is required. In addition to the work in physics and mathematics the candidate must offer also a minor in either chemistry, astronomy or philosophy.

**General and Experimental Physics**

COURSES PRIMARILY FOR UNDERGRADUATES

**1. General and Experimental Physics**—Mechanics of solids and fluids. Two hours lecture with illustrative experiments. Solution of problems. Four hours laboratory. Three hours credit. First semester.

Professor Almy, Mr. McComb, Mr. Spencer

**2. General and Experimental Physics**—Heat and sound. As in 1. Second semester.

**3. General and Experimental Physics**—Electricity. Two hours lecture with illustrative experiments. Four hours laboratory. Two or three hours credit. First semester.

Professor Skinner, Professor Moore, Mr. Spencer

**4. General and Experimental Physics**—Light. As in 3. Second semester.

**1a. Lecture Course in General Physics**—Mechanics of solids and fluids. Two hours lecture with illustrative experiments. Two hours credit. First semester.

Professor Almy, Mr. Spencer

**2a. Lecture Course in General Physics**—Heat and sound. As in 1a. Second semester.

Professor Almy, Mr. Spencer

**3a. Lecture Course in General Physics**—Electricity. As in 1a. Two hours credit. First semester.

Professor Skinner, Mr. Spencer

**4a. Lecture Course in General Physics**—Light. As in 1a. Two hours credit. Second semester.

Professor Skinner, Mr. Spencer

**5. Problems in Electricity**—(Prerequisite: Course 3.) Two hours attendance. Two hours credit. Second semester.

Assistant Professor Tuckerman

**6. Electrical Measurements**—(Prerequisite: Courses 3 and 5.) Eight hours laboratory. Three hours credit. First semester.

Assistant Professor Tuckerman

**11. Arts Course in General and Experimental Physics**—Mechanics, sound and heat. For the nature of this course and conditions for admission see above. Three hours lecture with illustrative experiments. Four hours laboratory. Four hours credit. First semester.

Professor Skinner, Mr. McComb, Mr. Spencer

**12. Arts Course in General and Experimental Physics**—Electricity and light. A continuation of 11. Four hours credit. Second semester.

Professor Skinner, Professor Moore, Mr. Spencer

**13. Experimental Physics for Arts Students**—This is simply an extension of the laboratory work of courses 11 and 12. Four hours laboratory. Outside preparation. Two hours credit. Each semester.

Professor Moore or Mr. McComb

**14. Experimental Physics for Arts Students**—A continuation of 13. Each semester. Two hours credit. Professor Moore or Mr. McComb

**15. Teachers' Methods Course in Physics**—(Prerequisite: Courses 1, 2, 3, 4, three hours each; or 11, 12, 13, 14.) Discussion in detail of methods and procedure in teaching physics. Selection and adaptation of subject matter, and of laboratory exercises; choice of apparatus and supplies; equipment and efficient administration of the laboratory. Difficulties in the teaching of the subject likely to be met in the high schools generally. Such understanding and organization of the work as shall reasonably assure successful teaching service from the start. (Closely related to Physics 16 and Education 33-34 which see.) Two hours attendance. Two hours credit. First and second semesters. Professor Brownell

**16. Teachers Laboratory Training Course in Physics**—(Prerequisite, as for 15. Best taken with 15.) An application of the methods of 15 as assistants in charge of laboratory sections of Physics classes in the Training School. Requires care of laboratory and its supplies; preparation in advance for the experimental work; assistance to pupils at the tables; and review of papers handed in. A selected list of quantitative experiments suited to high school work to be completed, using such equipment as is to be found commonly in high schools. Close personal direction, supervision and criticism. Eight hours laboratory. Two hours credit. First and second semesters. Professor Brownell

**17. Exact Physical Measurements**—In heat, the determination of freezing and boiling points; in electrochemistry, the study of electrolysis, conductivities, electromotive forces and electrolytic polarization; in optics, the use of the spectroscope, diffraction grating, interferometer, polariscope and accessories. Open to students who are taking special work in physics, chemistry, or astronomy and experiments are selected to fit the demands of their specialty. One hour reading. Six hours laboratory. Three hours credit. First semester. Professor Moore

**18. Exact Physical Measurements**—As in 17. Second semester.

#### FOR UNDERGRADUATES AND GRADUATES

**19. Advanced Experimental Physics**—Exact determination of physical constants, requiring a careful duplication of some classic experiments in physics in which a single experiment is expected to cover a period of about one semester, or an introduction to research. Fifteen hours laboratory. Five hours credit. First semester.

Professor Skinner, or Professor Moore, or Professor Almy

**20. Advanced Experimental Physics**—As in 19. Second semester.

## PRIMARILY FOR GRADUATES

**Research**—Original investigation of some problem in physics. No time limit imposed. Less than fifteen hours a week is not advisable.

Professor Skinner, or Professor Moore, or Professor Almy

**Theoretical Physics**

## PRIMARILY FOR GRADUATES

**21. Dynamics of Discrete Particles**—Formal development of the general principles of mechanics: D'Alembert's Principle—Gauss' Principle of Least Constraint—Hamilton's Principle of Least Action—La Grange's Equations—Hamilton's Canonical Equations—Applications to special problems. Four hours lecture. Four hours credit. First semester.

Assistant Professor Tuckerman

**22. Elasticity and Hydrodynamics**—*Elasticity*: Deformations of homogeneous media, isotropic and crystalline; vibrations of isotropic media; applications to special problems. *Hydrodynamics*: Irrotational and vortex motions; scalar and vector potentials; application to mechanical theories of electromagnetic phenomena. 21 continued. Second semester.

Assistant Professor Tuckerman

**23. Electricity and Magnetism**—The fundamental equations of Maxwell, applied to the theory of Static, Stationary, Quasistationary, and Kinetic Electromagnetic fields. A short outline of Vector Analysis and Quaternions (Hamiltonian and Continental Notations) is given as an introduction. Four hours. First semester.

Assistant Professor Tuckerman

**24. Electro-Optics**—Electromagnetic oscillations and their application to the theory of light. 23 continued. Second semester.

Assistant Professor Tuckerman

**25. Thermodynamics**—Development of the principles of thermodynamics from the two "fundamental laws." Two hours credit. One semester.

Professor Skinner

**26. Heat Radiation**—Thermodynamic theory of radiation. Two hours lecture. One semester. Two hours credit.

Professor Skinner

**27. Theory of Sound**—Theory of small oscillation of strings, bars, and air columns; propagation of sound. Three hours credit. One semester.

Professor Almy

**28. Optics**—Theory of ray systems; application to optical instruments. Three hours credit. One semester.

Professor Skinner

**29. Thermo- and Electro-Chemistry**—Three hours credit. One semester.

Professor Moore

**30-31. Theory of Changes of Physical State and Chemical Constitution of Bodies**—Two hours credit. First and second semesters.

Professor Moore

**32. Electric Conduction in Gases**—Faraday's law; ionic velocities; cathode rays; radioactivity; electron theory. Two hours credit. One semester.

Professor Skinner

**Physical Colloquium**—Instructors and graduate students meet weekly for presentation of short papers on the progress of their investigations and those reported in current periodicals.

## PHYSIOLOGY

Professor Guenther

A consideration of the facts and theories of vital phenomena with special emphasis upon secretion, digestion, absorption, metabolism, circulation, respiration, animal heat, the central nervous system, special senses and reproduction.

Courses 1 and 2 are intended for students desiring a general knowledge of human physiology. Although they are open to all students a preparatory year in general zoology is highly recommended. Students must not enter upon courses 12 and 13 without the prerequisite courses in general biology, physics, chemistry, histology, mammalian anatomy, embryology, and neurology required of medical students.

Candidates for advanced degrees must have completed the general scientific course in this University, or its equivalent. The ability to read French and German is desirable. Candidates will consult with the head of the department before registering.

Master of Arts—Second Minor: Courses 1 and 2. First Minor: Courses 1 and 2 and assigned reading. Major: Courses 1 and 2, assigned reading and thesis.

Doctor of Philosophy—First or Second Minor: Courses 1, 2, and assigned reading. Major: Completion of an investigation acceptable for publication in some standard journal of science.

**1. Human Physiology**—Lecture, demonstration and laboratory course. Two hours lecture. Three hours laboratory. Two hours credit. First semester.

Professor Guenther

**2. Human Physiology**—1 continued. Second semester.

**12. Advanced Physiology**—Four hours quiz. Eight hours laboratory. Six hours credit. Second semester.

Professor Guenther

**13. Advanced Physiology**—12 continued. Three hours quiz. Three hours laboratory. Four hours credit. First semester.

**POLITICAL ECONOMY AND COMMERCE**

Head Professor Le Rossignol, Professor Virtue, Dr. Stephens, Dr. England

**COURSES APPROPRIATE TO UNDERGRADUATE STUDENTS OF  
DIFFERENT YEARS****SENIOR**

First Semester	Second Semester
Seminary in Private Finance	Seminary in Private Finance
Seminary in Economic Reform	Seminary in Economic Reform
Scope and Methods	Advanced Political Economy
History of Political Economy	Statistics and Prices
The Economic History of Nebraska	The Trust Problem

**JUNIOR**

Public Finance	Corporation Finance
History of Crises	Stock Exchanges
Railway Problems	State and Local Taxation
Insurance	Tariff History
Economics of Agriculture	Socialism

**SOPHOMORE**

Elementary Political Economy*	Elementary Political Economy*
Accounting	Financial History of the United States
Colonization	Work and Wages
	Money and Banking
	Colonization

**FRESHMEN**

First Semester	Second Semester
History of Commerce	American Industries
Geography of Commerce	
American Economic History	
Business Organization	

**GRADUATES**

Master of Arts—Second Minor: Six hours. First Minor: Ten hours.

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\*First year students are admitted to this course only upon consultation with the teachers for the respective semesters.

**Major:** Sixteen hours. The selection of courses is influenced by the special nature of the thesis undertaken and must be approved. More advanced courses are required in the major than in the minors. Both political economy and commerce are required for a second degree in proportion to the needs of the candidate. One who has pursued economic courses as a part of his undergraduate work is much better prepared to obtain good results in his thesis than if he comes inexperienced in the subject. In the latter case it is difficult to take the degree within the minimum period on account of the research demanded by the thesis. A knowledge of the principles of economics is a condition precedent to the undertaking of research.

The degree of Doctor of Philosophy is given on the completion of the course usual for that degree. The requirements for each candidate must be carefully arranged at private conference with the head of the department at the beginning of the candidacy.

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. Principles of Political Economy**—Elementary course. Preliminary view of the subject with a text, intended as a general preparation for the more special courses offered in the department. The student is invited to conceive of industrial activity as a system, and is aided by a thorough system of questions and answers. While this course is best adapted to second-year or older students, there are many first-year students who can take it with advantage, and who will be permitted to do so upon consultation with the teachers in the respective semesters. Those who have already taken courses 4, 13, and 17 have a desirable preparation for this rapid survey. Three hours attendance. Three hours credit. First semester and repeated in the second semester.

Head Professor Le Rossignol,  
Professor Virtue, Dr. Stephens, Dr. England

**3. Geography of Commerce**—A general survey of the fundamental physiographic conditions and human agencies affecting industrial and commercial development, followed by a careful study of topography, climate, natural resources, industries and commerce of each of the principal countries of the world. This course is intended to serve as an introduction to the much more detailed study of typical American industries given in course 4. Two hours attendance. Two hours credit. First semester.

Dr. Stephens

**4. American Industries**—A detailed study of typical agricultural, extractive and manufacturing industries of the United States. The methods of producing such important food products and raw materials as corn, wheat, cotton, wool, live stock, forest products and iron ore, together with

the general conditions underlying such production in the various districts are studied with great care. The various methods of marketing and shipping these products are especially emphasized. After tracing the principal raw materials from the producer to the factory, the various processes involved in manufacturing finished products are outlined. Then the finished products are traced to the consumer, great emphasis again being laid upon marketing and shipping problems. Some of the industries are covered by lectures by the instructor and some by co-operative topical work on the part of the students. Three hours attendance. Three hours credit. Second semester.

Dr. Stephens

[5. **Business Organization**—A study of the general principles involved in up-to-date organization of various businesses. Some of the principal topics considered are factory organization, factory cost-keeping, commercial organization of the factory, stock and produce exchanges, direct selling, wholesaling and retailing, traveling salesmanship, mail-order business, advertising, credits and collections. Three hours attendance. Three hours credit. First semester.]

Dr. Stephens]

*Not given in 1911-1912.*

7. **Accounting**—An interpretation of the fundamental principles of modern accounting from the standpoint of business manager and accountant. The course includes a study of the balance sheet; the assets and methods of valuation; the loss and gain account; cost accounts; the depreciation account; capital, surplus, reserve, and sinking funds. The treatment of the course centers about mercantile and manufacturing account. Three hours attendance. Three hours credit. First semester.

Dr. Stephens

9. **Insurance**—The historical development of marine, fire, life, accident, health, liability and other forms of insurance is briefly outlined, and their economic importance shown. The essential features of insurance administration, governmental control and supervision of insurance companies, the various methods of computing premiums, the organization and management of agencies, taxation of insurance companies and other important questions are discussed. Special attention is given to a detailed comparative study of the chief provisions in various sample policy contracts. Three hours attendance. Three hours credit. First semester.

Dr. Stephens

10. **Work and Wages**—History of the modern labor movement; organization of labor; history of wages in the 19th century; theory of wages. Methods of remuneration; hours and conditions of labor; migration; elevation and degradation of labor; strikes, conciliation; voluntary and compulsory arbitration; voluntary and compulsory insurance; pensions; workingmen in politics. Three hours attendance. Three hours credit. Second semester.

Dr. Stephens

**12. The Economics of Colonization**—The economic objects and importance of colonization, to what extent colonization is properly a matter of private enterprise, whether state expenditure pays economically, and whether private enterprise is rewarded. Different relations of public and private activity at different periods of colonial development. Different economic interests of different kinds of colonies and of different colonial populations. Economic interests of aboriginal peoples. Taxation in colonies, whether by customs duties or otherwise. Export and import taxes. The question of free trade between the colony and the mother country. The proper policy with respect to colonial lands. Registry of deeds and land tax. Three hours attendance. Three hours credit. Second semester.

Dr. England

**13. History of Commerce**—The course deals not only with the development of commerce during mediaeval and modern times but also with the various stages through which the agricultural and manufacturing industries have passed. It includes a study of industrial and commercial organization, the shifting relations of the state to industry, the influence of geographical discoveries, the causes and effect of the great changes in the routes of trade, the bases of the commercial prosperity of nations, the outlines of commercial policy advocated by important schools of economic thought, and the great improvements in agricultural, manufacturing, and transportation industries, especially since 1760. The course is intended primarily as an introduction to course 1. Three hours attendance. Three hours credit. First semester.

Professor Virtue

**14. Tariff History**—While the course deals chiefly with American tariff history and its relation to the industrial and commercial interests of the country, it includes also a survey of the tariff policies of other leading countries; a study of various reciprocity agreements and their operation; efforts to promote foreign trade, especially through the Consular Service; the history of American shipping, the causes of its decline, the various proposals for restoring it; and the recent progress and changes in the character of our foreign trade. Three hours attendance. Three hours credit. Second semester.

Professor Virtue

**17. American Economic History**—A study of the economic development of the United States from colonial times to the present. Special attention is given to the settlement of the land and extension of farming area, to the application of machinery to agriculture, to the development of manufactures, to the increase in transportation facilities, and to the growth of internal and foreign trade. Text-book, weekly papers and term report. Three hours attendance. Three hours credit. First semester.

Dr. England

**21. Financial History of the United States**—This course gives a survey of the financial operations of the federal government since 1789. It deals with revenue and expenditure, the management of the public debt, monetary and banking legislation, and the economic conditions which have given rise to popular demands for financial changes. The course closes with a study of current movements for the reform of banking and monetary laws. Two hours attendance. Two hours credit. First semester.

Professor Virtue

**25. Money**—Credit, banking, and bimetallism. The nature and explanation of credit, its place and significance in industry and commerce; the banking systems of the principal countries and their history; the theory of banking; the relation of credit to production, to the price-level, and to the money market; the interrelation between credit and the monetary unit; the theory of the relation of the supply of the monetary metal to the level of prices and to the money market; the various propositions for decreasing fluctuations in prices by improving the monetary unit; the theory of justice between debtor and creditor and of the obligation of government to them. Lectures, discussions, readings, reports, and short theses. Three hours attendance. Three hours credit. Second semester.

Head Professor Le Rossignol

[**40. Municipal Industries**—A study of the principles and methods involved in the construction and operation of municipal public utilities; growth and importance of these industries in the United States and in foreign countries; direct versus contract method of construction and repairs; municipal ownership versus regulated private ownership of the leading public service utilities. Three hours attendance. Three hours credit. Second semester.

Mr. Valgren]

*Not given in 1911-1912.*

[**43. The Public Domain and Public Welfare**—Open to those who have completed course 1, and to others prepared for the work on consultation with the instructor. A brief historical survey of the acquisition by the Federal Government of public lands. A study of the various plans by which the greater part of these lands have been transferred from public to private ownership, the good and evil results of such transfer, criticism of the plans and policies now in vogue; importance and extent of the remaining public lands, classification of these lands; recent governmental activities in the way of conservation and reclamation. Three hours attendance. Three hours credit. First semester.

Mr. Valgren]

*Not given in 1911-1912.*

**44. Economics of Agriculture**—Open to those who have completed course 1, and to others prepared for the work, on consultation with the

instructor. A study of the economic principles of farm management; organization of farms, labor systems, size of farm units, ownership; agrarian legislation, credit systems and other cooperative organizations among the farmers. Three hours attendance. Three hours credit. (Two hours credit in 1911-1912.) Second semester.

Mr. Valgren

FOR UNDERGRADUATES AND GRADUATES

19. **History of Political Economy**—History of economic theory in ancient and mediaeval times; beginning of modern political economy; the Cameralists, the Mercantile Doctrine; the Physiocrats; Adam Smith, Malthus, Ricardo, J. S. Mill and other classical economists. Students registering in this course are expected to continue in course 20. Two hours attendance. Two hours credit. First semester.

Head Professor Le Rossignol

20. **Advance Political Economy**—A continuation of course 19. A comparative study of economic theory from Mill to the present day; the Historical School; Jevons and the Austrian School; Marshall and other recent English economists; theories of Clark, Carver, Fisher, Davenport and other recent American writers; recent economists of continental Europe. Two hours attendance. Two hours credit. Second semester.

Head Professor Le Rossignol

22. **Socialism**—History of socialistic thought before the French Revolution; Utopias of Plato, More, Campanella; Utopian theories of Owen Saint-Simon, Fourier; communistic experiments in Europe and America; Proudhon, Blanc, Marx, Lasalle; growth of socialist parties in Germany and throughout the world; recent socialistic theory and criticism. Three hours attendance. Three hours credit. Second semester.

Head Professor Le Rossignol

23. **History of Economic Crises**—A comparative study of the economic, industrial and financial crises from the seventeenth century to the present day. Especial attention given to the recent world crises. The work covers the local and minor crises preliminary to the main crisis, the transmission of the crisis from country to country; the fluctuation in investment, bank items, and prices in the principal countries; and the action and reaction between industrial activity and financial business. Supplementary readings on the theory of crises. Three hours attendance. Three hours credit. Second semester.

Dr. England

24. **Statistics and Prices**—A study of the preparation, interpretation and application of economic statistics with especial reference to prices; the determination of the rise and fall of general prices; the comparison of the movement of prices of raw materials and finished products; prices

in relation to wages; prices cycles; stock prices and profits. Three hours attendance and three hours credit. Second semester. Dr. England]

*Not given in 1911-1912.*

**27. Corporation Finance and Investments**—This course includes an introductory study of the historical development of corporations, the advantages and disadvantages of large scale production, the various forms of combination such as pools, trusts and holding companies, federal and state anti-trust laws and decisions, followed by a detailed study of the methods of promoting and capitalizing larger combinations, and various other important problems involved in their financing. Special emphasis is given to the discussion of the merits and demerits of the stocks and bonds of industrial, public service and railroad corporations as investments, and the stock market methods underlying their purchase and sale. The financial development of numerous typical corporations is studied from their reports and from other sources, as a basis for judging the merits of their securities as investments. Two text-books are used and these are supplemented by lectures and topical reports. Three hours attendance. Three hours credit. Second semester. Dr. Stephens

**28. The Trust Problem**—The rise and development of trust forms of business organization. The conditions essential to the operation and growth of trusts. The elements of large-scale production and monopoly entering into the formation of trusts. Dangers arising from their unrestricted operation, and remedies, including governmental interference. Two hours attendance. Two hours credit. Second semester.

Dr. Stephens

**31. Public Finance**—The course embraces a study of the objects and growth of public expenditures of the leading nations, especially of England and the United States; the leading features of their tax systems and the principles on which the various forms of taxation rest; the forms and management of public indebtedness; and the systems developed for financial administration, especially for the control of the budget. Three hours attendance. Three hours credit. First semester.

Professor Virtue

**32. State and Local Taxation**—A seminary course on state and local taxation with especial reference to the history and present situation of taxation in Nebraska. A comparative study of the movement in various states for tax reform will be made. Open only to those who have had course 31, or its equivalent. Three hours attendance. Three hours credit. Second semester.

Professor Virtue

**33. Railway Problems**—A history of the development of the means of transportation, especially in the United States; the activity of the states

in securing internal improvements; the characteristics of construction and management of railroads; their relation to economic development; rail and water competition; financial methods of the railway companies; rate policies; state and federal legislation; control by public commission; government ownership and its results. Three hours attendance. Three hours credit. First semester.

Professor Virtue

**35. Stock and Produce Exchanges—Boards of Trade**—A description of the nature of the business carried on in the Paris Bourse, the Stock Exchange of London, the New York Stock Exchange, the New York Produce Exchange, the New York Coffee Exchange, the Cotton exchanges of New Orleans, Liverpool, and New York, and the Chicago Board of Trade. Options and futures, puts, calls and straddles. Corners in stocks, wheat, corn, cotton, copper, gold, iron, lard, etc. Study of the lives of great operators, such as Jacob Little, Daniel Drew, Jay Gould, James Fisk, Commodore Vanderbilt, Jay Cooke, Henry Villard and the Rothschilds. The legitimate field of the exchange business, its abuse, and control exercised and sought to be exercised in this and other countries. Three hours attendance. Three hours credit. Second semester.

Dr. England

[**36. The Economic History of Nebraska**—A seminary course dealing with the economic development of the state. Open to advanced students prepared for the work of original investigation. Two hours attendance. Two hours credit.

Professor Virtue]

*Not given in 1911-1912.*

**37. Economic Reform**—Seminary on voluntary and compulsory efforts for the improvement of economic conditions; activities of trade unions and fraternal societies, co-operation, profit-sharing, settlement of industrial disputes by conciliation and arbitration, the single tax and other proposed reforms in taxation, governmental control and ownership of railways, monetary and banking reform, compulsory insurance, old age pensions. Each student will be expected to make a somewhat intensive study of some one subject and the class as a whole will study particularly state activities in Australia and New Zealand. Three hours attendance. Three hours credit. First semester.

Head Professor Le Rossignol

**38. Economic Reform**—Continuation of 37. Second semester.

[**39. Scope and Method of Political Economy**—In this course the limits of economics and its relation to other sciences will be indicated. Practical exercises in the solution of the various types of economic problems will be employed to show the proper use and the limitations of the various methods of economic study. Lectures, papers, discussions. Two hours attendance. Two hours credit. First semester.

Head Professor Le Rossignol

*Not given in 1911-1912.*

**POLITICAL SCIENCE AND SOCIOLOGY**

Head Professor Howard, Professor Hutton Webster, Associate Professor Eaves, Associate Professor Aylsworth, Lecturer Sheldon

**UNDERGRADUATE WORK**

As a rule students are expected to begin their work in political science with Courses 1 and 2 or 3 and 4, followed first by 12, or both 11 and 12., and later by a choice of the more advanced courses. Students already well grounded in civil government, or advanced in University work, are advised to begin with 11 and 12, followed by more specialized courses. To those intending to teach civil government, or American history, or both, in the schools, 1 and 2 are recommended as especially adapted in method and matter to their needs.

Courses 5, 6, 10 and 13 are open to Freshmen. With these exceptions, sociological, ethnological, or anthropological studies should be deferred to the later years. As further preparation for them courses 1 and 2 in each of the departments of American History, European History, and Political Economy are recommended.

The six hours of required electives hitherto confined to history only may now be taken in either history or political science and sociology at the student's option.

Candidates for the University Teachers' Certificate may elect the required special work in this department in conjunction with allied subjects. When a student can take but 16 or 17 hours for a major and but 12 or 13 hours for a minor in this department, the following courses are suggested: Major—Courses 1, 2, 21, 22, 15, 16, 31; Minor—Courses 1, 2, 21, 22, 15, 35. Other courses may perhaps be more valuable for particular students. Individual conferences are suggested.

**REQUIREMENTS AND FACILITIES FOR GRADUATE WORK**

The minimum requirement for the degree of Master of Arts is one full year's work or the equivalent of about thirty class-hours, including a thesis. A candidate may devote his entire time to the work of the department; or he may divide it between a major and a minor. A minor is the equivalent of nine class-hours. The selection of courses is influenced by the character of the thesis.

The minimum requirement for the degree of Doctor of Philosophy is three full years' work of which about three-fifths, or the equivalent of about sixty class-hours, must be given to the major subject. The remaining two-fifths of the time, or the equivalent of about forty class-hours, must be devoted to a first minor or divided equally between two second

minors. The particular courses in the major subject are selected with regard to the character of the thesis and with reference to the candidate's aim and preparation. The thesis must be the result of the sustained investigation of the original materials. Without undergraduate training in thesis-writing or research courses, it is difficult to take either the master's or the doctor's degree in the minimum period. Preferably minors may be selected in the departments of economics, history, or public law; but minors will be accepted in education, philosophy, or other departments, according to the needs of the candidate. In all cases a good knowledge of economics and history is required.

The facilities available for graduate study and research in both political science and sociology are excellent. The libraries of the University, city, state, and the State Historical Society afford the student access to an aggregate of about 225,000 volumes. The University Library contains the standard authorities and reference works on institutional history, social science, anthropology, ethnology, Roman law, historical jurisprudence, political philosophy, government, politics, administration, and statistics. It is especially strong in public documents and other material, source and secondary, for the investigation of problems in American government and administration. The State Library of 65,000 volumes supplements those of the University and the College of Law. It is one of the best law libraries in the west—rich in materials for a comparative study of government and legislation in the different states. In the Historical Society's collections and the public archives at the state Capitol there is accessible a mine of source material for investigating state and local government and administration in Nebraska. When these resources prove inadequate in special investigations, desired books will be purchased or temporarily borrowed from other libraries.

The location of the University at the state capital gives an opportunity for personal observation and study of the actual problems and practical workings of state and municipal legislation and administration.

Many valuable allied courses in economics, history, jurisprudence, and law are to be had in other departments.

#### COURSES PRIMARILY FOR UNDERGRADUATES

1. **American Government**—Introductory study of salient features in historical development, political structure, and actual workings of national, state, and local governments as parts of one whole. National government, first semester. Open to all students. Two hours attendance. Two hours credit. First semester. Associate Professor Aylworth

2. **American Government**—Complement of Course 1. May be taken before Course 1. State and local governments in general. Special study of

Nebraska, in comparison with other states, as an example of both federal and state relations, and state and local government. Open to all students. Two hours attendance. Two hours credit. Second semester.

Associate Professor Aylsworth

3. **Biography of Statesmanship**—From Roger Williams to Abraham Lincoln; character and deeds of twenty state-builders in America. Role of great men in social progress. Personality in social achievement. Open to all students except freshmen. Two hours attendance. Two hours credit. First semester.

Head Professor Howard

4. **Biography of Statesmanship**—3 continued. New registrations accepted. Second semester.

5. **Introduction to Social Anthropology**—A study of the early life of mankind as revealed in monuments and remains, customs, institutions, and beliefs. A detailed treatment will be made of such subjects as the origin and growth of language, beginnings of writing, genesis and development of the arts of life, primitive science and education, matrimonial institutions, origins of government and the state, rise of property and monetary systems, early religion, magic, and mythology, early law and morality. Lectures accompanied by reference syllabus and illustrated with lantern slides. Three hours attendance. Three hours credit.

Professor Webster

6. **Introduction to Social Anthropology**—5 continued. Second semester.

7. **Modern Social Betterment Movements**—Social settlements, welfare work of large employers, efforts to protect the health of the public, housing problems, public parks and playgrounds, and other forms of modern social betterment service will be studied. Three hours attendance. Three hours credit. First semester.

Associate Professor Eaves

8. **Poverty and Dependence**—This course includes a general discussion of the causes of poverty and dependence and the principles of prevention and relief, with a more concrete study of modern methods of caring for the poor. State institutions for the care of dependents, the methods of work of charitable and religious societies, and emergency relief in times of great calamities will be among the subjects considered. Three hours attendance. Three hours credit. Second semester.

Associate Professor Eaves

9. **Municipal Government**—Organization of City Government in the United States and Europe. Growth of cities, the "home rule" movement, municipal suffrage, initiative and referendum, the council and executive, the municipal administrative system, the commission plan of city government, and the "short ballot." Open to all except freshmen. Two hours attendance. Two hours credit. First semester.

Associate Professor Aylsworth

**10. Municipal Government**—Functions of city administration in the United States and Europe. Origin and expansion of municipal functions, tendency toward municipal socialism, activities and problems connected with public health and safety, charities, education, recreation, public works, transportation, the "city beautiful," municipal ownership of public utilities, etc. Occasional stereoptican views. Open to all except freshmen. Two hours attendance. Two hours credit. Second semester.

Associate Professor Aylsworth

**11. English Government and Politics**—A study of the British political system in comparison with our own. Growth of the English constitution, the cabinet-parliamentary organization of government, judicial system and procedure, legislative and administrative methods, the colonial system, political parties and party methods, present day issues of constitutional reform, financial, educational, and social-economic legislation. Open to all except freshmen. Two hours attendance. Two hours credit. Second semester.

Associate Professor Aylsworth

**13. Nebraska History and Political Institutions**—Aboriginal inhabitants, their life, lands, customs and remains. Spanish, French and American exploration. Early trade, travel and settlement. Territorial organization, laws, and institutions. Statehood. The making of Nebraska Constitutions. Immigration, railroad building, industrial growth. The economic and political revolution. Religion, education and social life. Present problems and the New Nebraska. Bibliography of documentary and other sources of Nebraska history. Lantern slide views of historic scenes and persons. Open only to seniors and juniors; others by special arrangement. Two hours attendance. Two hours credit. First semester.

Lecturer Sheldon

**14. Nebraska History and Political Institutions**—13 continued. Second semester.

#### FOR UNDERGRADUATES AND GRADUATES

**15. General Sociology**—Principles of social science. For third and fourth year students and graduates. Three hours attendance. Three hours credit. First semester.

Head Professor Howard

**16. Problems in Social Psychology and Ethics**—Chief psychic factors in social evolution. Laws of suggestion, mob-mind, and imitation; "craze," "fad," and sect; fashion, conventionality, custom, and tradition; leadership, genius, hero-worship, role of great men; social conflict, compromise, discussion, free speech, free press, public opinion; social sins, standards of private and social ethics. Theories of Le Bon, Tarde, Sidis, Ward, and Ross. For third year and more advanced students. Three hours attendance. Three hours credit. Second semester.

Head Professor Howard

**17. Primitive Religion**—An anthropological and sociological investigation of the evolution of religious beliefs and rites. Development of the ideas of spirits and gods; polytheism, dualism, and monotheism. Systems of religious belief: fetishism and idolatry; worship of natural objects, animals and plants; ancestor-worship. Magic in its connections with religion; demonology and devil-lore; notions of the soul and of the future life; origin and growth of religious ceremonies, priesthoods, and mythologies; sacrifice and prayer. Such topics as the classification of religious, connections between religion and morality, sociological factors in the development of religion, present trend of religious progress, etc., receive attention. Three hours attendance. Three hours credit. First semester.

Professor Webster

**18. Primitive Religion**—17 continued. Second semester.

**19. Labor Legislation**—The development of legislation for the regulation and protection of wage-workers in countries other than the United States. Particular attention will be given to the English labor laws and decisions. Two hours attendance. Two hours credit. First semester.

Associate Professor Eaves

**20. Labor Legislation**—The labor laws and decisions of the United States, with a more detailed study of the development of this legislation in Nebraska. Two hours attendance. Two hours credit. Second semester.

Associate Professor Eaves

**21. Socialization of Education**—This course will open with a brief summary of plans for the social and ethical training of the individual. The remainder of the time will be devoted to modern movements which are making the public schools more effective means for social progress. Medical inspection, vacation schools, recreation and lecture centers, industrial education, and the playground movement are among the topics considered. Two hours attendance. Two hours credit. First semester.

Associate Professor Eaves

**24. Criminal Sociology**—Elements of criminology and penology. Particular attention will be given to modern methods of reform as expressed in the juvenile court, reform school, parole, the indeterminate sentence, and better forms of prison management. Two hours attendance. Two hours credit. Second semester.

Associate Professor Eaves

[**26. Modern History of Political Thought**]—A study of political ideas since the Renaissance with a preliminary discussion of political philosophy in the Middle Ages. An analysis of the theories of Machiavelli, Erasmus More, Thomas Smith, Bodin, Hooker, Bacon, Grotius, Hobbes, Harrington, Filmer, Locke, Shaftesbury, Sidney, Montesquieu, Rousseau, Diderot,

and later writers. Three hours attendance. Three hours credit. Second semester.

Head Professor Howard]

*Not given in 1911-1912.*

**27. Federal Institutions**—Federal government in the United States, Switzerland, Canada, Australia, South Africa, German Empire, and the Latin American Republics. Three hours attendance. Three hours credit. First semester.

Head Professor Howard

*Given in 1911-1912 and alternate years.*

**28. Federal Institutions**—27 continued. Second semester.

**[29. National Administration]**—A study of the principles and working machinery of the national system of administration and the methods of conducting the government's business; the administrative authority of the President; executive powers of the Senate; organization and work of the nine executive departments and the different commissions; principles controlling official relations. Designed to give a general knowledge of the scope and practical operation of the government service and to make clear the opportunities for college graduates in these branches of administration. Open to juniors and seniors and to others by consent of the instructor. Two hours attendance. Two hours credit. First semester.

Associate Professor Aylsworth]

*Not given in 1911-1912.*

**[30. State Administration]**—A study of administrative organization and activities in the different states; the governor and other state administrative officers; the departments of education, health, insurance, public lands, etc., growth and influence of state boards and commissions; centralization in state administration; state control of county, township, and municipal administration. Open to juniors and seniors and to others by consent of the instructor. Two hours attendance. Two hours credit. Second semester.

Associate Professor Aylsworth]

*Not given in 1911-1912.*

**31. Party Government**—Organization and working of political parties in the United States. Growth of party system; caucus and convention; direct primary; the party committee, "machine," and "boss"; legal control and responsibility of parties; campaign funds; origin and influence of third parties; relative relation, proportional representation and the initiative and referendum to party government; party control of legislation and administration. May be made a three hour course. Open to all except Freshmen. Two hours attendance. Two hours credit. First semester.

Associate Professor Aylsworth

**33. Practical Legislation: Nebraska Problems**—Introductory study of Nebraska's historical development, social, political, constitutional. Pres-

ent problems in Nebraska law-making and administration. Subject matter and methods of legislation. Drafting and criticism of legislative bills and information briefs in co-operation with Nebraska Legislative Reference Department. Practice work at state house during legislative session, January to April of odd numbered years. Two hours attendance. Two hours credit. First semester.

Lecturer Sheldon

Credited in the College of Law.

34. **Practical Legislation: Nebraska Problems**—33 continued. Second semester.

35. **Folk-lore**—An examination of those phases of thought and action, which, inherited from prehistoric savagery, still abide among peoples of advanced culture. After preliminary lectures on the study and classification of folk-lore the subject is discussed under the following heads: 1. Folk-faith; the folk-lore of animism, magic and myth. 2. Folk literature: folk-tales, their diffusion and interpretation, systems of folk-tales, popular epics and romances, notably those of Celtic and Teutonic peoples; folk-songs, folk-plays and folk-sayings, including proverbs, riddles, rhymes, and fables. 3. Folk-custom: popular festivals, ceremonies, games and sports, symbols and superstitions. These topics are studied with special reference to their relation to the beginnings of religion, law, and morality. Lectures and reports. This course should prove of special importance to teachers and to others interested in the study of childhood. Two hours attendance. Two hours credit. First semester.

Professor Webster

36. **Folk-lore**—35 continued. Second semester.

39. **Professional Course in Social Service**—This course is planned to give practical experience to those who expect to prepare themselves to take positions in charitable or correctional institutions, or to take part in the social betterment work of churches, or Christian associations, social settlements, probation work of juvenile courts, or welfare departments of industrial establishments. In so far as possible the work will be adapted to the needs of each student preparing for such vocations. It will consist of special investigations, and personal consultations on practical work undertaken. Open to mature students. Each student will investigate some concrete social problem. Two hours attendance besides field-work. Two hours credit. First semester.

Associate Professor Eaves

40. **Professional Course in Social Service**—39 continued. Second semester.

[43. **Theory of Statistics**—Principles and methods of statistical science. Exercises in the investigation of actual social and demographic problems. Two hours attendance. Two hours credit. First semester.

Associate Professor Eaves]

[44. **Sociology and Statistics**—Social, vital, and demographic statistics. Birth, death, marriage, and divorce rates; suicides, pauperism, and crimes; urban and rural sanitary conditions; war, disease, malnutrition, and child labor. Two hours attendance. Two hours credit. Second semester.

Associate Professor Eaves]

*Not given in 1911-1912.*

#### PRIMARILY FOR GRADUATES

[47. **Seminary on Bad Government**—Varieties, causes, and effects of institutional perversion. "Machine"; "boss" in city, state, and national politics; the "lobby," "milking bills," "strike legislation," "courthouse ring," gerrymander, spoils system, and other species of "graft" and graft-methods. Primarily for graduates. By permission a limited number of other specially qualified students may be admitted. One two-hour (evening) session each week. Two hours credit. First semester.

Head Professor Howard, Associate Professor Aylsworth]

*Given in 1912-1913 and alternate years.*

[48. **Seminary on Colonies and Colonization**—World-politics. Sociological, economic, and political problems. Imperial problems of the United States in comparison with those of Great Britain, France, and Germany. For graduates and other specially qualified students. One two-hour (evening) session each week. Two hours credit. Second semester.

Head Professor Howard, Associate Professor Aylsworth

*Given in 1912-1913 and alternate years.*

49. **Seminary on Municipal Problems**—American and foreign municipal conditions compared; forces determining location, growth, structure, and economic basis of cities; comparison of urban and rural conditions with respect to sociological factors; aspects of bad government; public ownership; "city beautiful," model "municipal program." For graduates and advanced undergraduates. One two-hour (evening) session each week. Two hours credit. First semester.

Head Professor Howard, Associate Professor Aylsworth

*Given in 1911-1912 and alternate years.*

50. **Seminary on the Family**—Mother-right, father-right, polygyny, polyandry, wife-capture, wife-purchase, theories as to genesis of matrimonial institutions; divorce, marriage, birth-rate, "race-suicide"; legislation and sex-education in the reform movement; intellectual and industrial liberation of woman; co-education; problems of marriage, the home, and the family. Primarily for graduates. By consent a limited number of other specially qualified students may be admitted. One two-hour (even-

ing) session each week. Two hours credit. Second semester.

Head Professor Howard, Associate Professor Aylsworth

*Given in 1911-1912 and alternate years.*

**53. Round Table in Primitive Society**—The study and informal discussion of one or more standard treatises in the field of social anthropology, such as Tylor's *Primitive Culture*, Westermarck's *Origin and Development of the Moral Ideas*, Spencer's *Principles of Sociology*. Some attention is paid in this course to methods of anthropological research. One hour a week. One hour credit. First semester. Professor Webster

**54. Round Table in Primitive Society**—53 continued. Second semester.

## RHETORIC

Head Professor Frye, Professor Fogg, Associate Professor Buck, Assistant Professor Gass, Adjunct Professor Howell, Miss McPhee, Mr. Davis

### GENERAL INFORMATION

It is the aim of the Department to further a systematic understanding of the principles of English composition and to cultivate correct habits of speaking and writing the English language. To this end all courses insist upon constant exercise in expression and upon frequent consultations with the instructors in addition to the regular class-room discussions and recitations. At the same time emphasis is laid, as far as possible, upon outside reading and study in illustration of the methods, and in preparation of the materials, of rhetorical practice.

### ELECTION OF COURSES

Before the student proceeds to elective work, he must have completed courses 1 and 2 as a prerequisite. A student electing advanced work in rhetoric will find it advantageous to carry courses in English literature in connection, if he is not doing so already. Students intending to elect work in debate should take courses 13 and 14 in their sophomore year. Such students are also recommended to acquaint themselves with those subjects from which questions for debate are usually drawn—American history, European history, jurisprudence and public law, philosophy, political economy and commerce, and political science and sociology.

### UNIVERSITY TEACHERS' CERTIFICATE

On account of the necessity for common preparation in Rhetoric and English Literature, no major is open in either of these subjects singly. A major in Rhetoric and a major also in English Literature will be credited to those who secure credit for twenty-eight hours in the courses following:

Rhetoric—Courses 3 and 4, four hours; 7 and 8, six hours.

English Literature—Courses 1 and 2, six hours; 11 and 12, four hours; 17 and 18, eight hours.

It is necessary for students offering the majors in Rhetoric and in English Literature to include a minor of twelve hours in some allied subject.

Candidates who intend to teach debate may make arrangements to substitute courses 13 and 14 for 7 and 8. Candidates should notify the departments of their candidacy by the beginning of their sophomore year.

#### GRADUATE WORK

Courses leading to the degree of Master of Arts will be arranged, in connection with English literature, on application.

#### COURSES PRIMARILY FOR UNDERGRADUATES

##### REQUIRED

1. **Rhetoric and English Composition**—Instruction and practice in elementary composition. Themes, conferences. Two hours attendance. Two hours credit. First and second semesters.

Head Professor Frye, Associate Professor Buck

Assistant Professor Gass, Miss McPhee and Mr. Davis

2. **Rhetoric and English Composition**—1 continued. First and second semesters.

Courses 1 and 2 are required of all freshmen in the College of Arts and Sciences, the College of Agriculture, and the College of Engineering.

5. **English Composition**—Expository writing and kindred forms of expression. Three hours attendance. Three hours credit. First semester.

Head Professor Frye and Miss McPhee

6. **English Composition**—5 continued. Second semester.

Courses 5 and 6 are required of all sophomores in the College of Agriculture and may be elected, in place of 3 and 4, by students wishing an additional hour's work.

##### ELECTIVE

3. **English Composition**—1, 2 continued. Practice in general expression. Intended to give the student some control over his own thought and some facility in its presentation. Examples from the English essay. Two hours attendance. Two hours credit. First semester.

Head Professor Frye and Miss McPhee

4. **English Composition**—3 continued. Second semester.

23. **Newspaper Writing**—News-story and editorial writing. Two hours attendance. Two hours credit. First semester.

Assistant Professor Gass

24. **Magazine Writing**—23 continued. Magazine exposition. Second semester.

25. **Narration**—Practical course in prose narrative writing. Admission by consent of instructor. Two hours attendance. Two hours credit. First semester.

Associate Professor Buck

26. **Narration**—25 continued with special attention to the short story. Second semester.

#### COURSES FOR UNDERGRADUATES AND GRADUATES

7. **English Composition**—Advanced course. Theory of English composition. Studies in the organization of literary material. Daily and fortnightly themes. Two hours attendance. Three hours credit. First semester.

Head Professor Frye

8. **English Composition**—7 continued. Critical studies in style and structure. Readings and reports to illustrate the principles of English prose literature. Daily and fortnightly themes. Two hours attendance. Three hours credit. Second semester.

Head Professor Frye

9. **Writers' Course**—Intended for advanced students who wish to improve their writing in connection with some particular subject of study or inquiry. No classes; themes, criticism and conferences. The student is expected to propose a subject, to prepare a theme, and to submit it to the instructor for criticism and advice with a view to revision and improvement. Two hours credit. First semester.

Head Professor Frye

10. **Writers' Course**—9 continued. Second semester.

13. **Argumentation**—1, 2 continued. Principles of argumentative composition. Text-book, lectures, frequent writing, conferences; gathering of material; analysis; evidence; structure—brief-drawing; ethics of discussion. Briefs and arguments on questions of general or college interest or from the student's work in other departments. In the second semester a thesis, for which the training in the first semester directly prepares, may be substituted. Two hours attendance. Three hours credit. First semester.

Professor Fogg and Assistants

14. **Argumentation**—13 continued. Second semester.

15. **Debate**—Introductory course. Principles of argumentation practically applied to oral discussion of economic, ethical, historical, political, and sociological questions. Weekly debates, preceded by briefs, in which each member takes part three times as principal speaker. The debates

are criticised before the entire class. Open to students who have completed course 13 with credit and to others by special consent. Membership limited to twenty. Two consecutive hours attendance. Three hours credit. First semester.

Professor Fogg, and Professors Caldwell,  
Fling, Howard, and Le Rossignol

16. **Debate**—15 continued. Open to students who have completed 13 or 15 and to others by consent of the instructor. Second semester.

17. **Debate**—Advanced course. Further training in investigation and oral discussion. Debates. Each member takes part three times as principal speaker. Conducted as course 15. Open to students who have completed 13 and 15 or 16 and to others by consent of the instructor. Membership limited to sixteen. Admission by consent of instructor. Two consecutive hours attendance. Three hours credit. First semester.

Professor Fogg and Professors Caldwell  
Fling, Howard, and Le Rossignol

18. **Debate**—17 continued. Second semester.

19. **Public Address (Exclusive of Debate)**—Practical training in the composition of the public address not strictly argumentative. Practice in writing for definite audiences, the occasional address. Emphasis on persuasion and literary form, supplementing the course in argumentation and debate. Burke, Erskine, Webster, Lincoln, Phillips, Beecher, Curtis, and contemporary public speakers. Readings; conferences. To have taken or to be taking course 13 is advantageous. Two or three hours attendance. Three hours credit. First semester. Professor Fogg

20. **Public Address (Exclusive of Debate)**—19 continued. Second semester.

22. **Debate**—Second advanced course. Training of a more systematic kind. Original research. Open only to those students who have attained some excellence in argumentation and debate. Membership limited to twenty. Attendance to be arranged. Credit varies with the work done. First semester. Professor Fogg

29. **The Nineteenth Century Essay**—Principles of English composition as illustrated by selected works of masters of modern English prose—Jeffrey, Hazlitt, Macaulay, Lamb, De Quincey, Carlyle, Ruskin, Arnold, Newman, and Stevenson. Frequent themes; personal criticism. Prerequisite: Courses 1, 2. Two hours attendance. Two hours credit. First semester. Professor Fogg

30. **The Nineteenth Century Essay**—29 continued. Second semester.

32. **The Teaching of Rhetoric and English Composition**—Teachers'

Course. Aims and methods of secondary-school instruction in rhetoric and English composition. General principles of composition. Discussion of text-books; themes. The management of theme courses. Practice in correcting themes. Open to Juniors, Seniors, and graduates. Required of candidates for the University Teachers' Certificate in Rhetoric and English Composition. One hour lecture; three hours reading and observation. Two hours credit. Second semester.

Head Professor Frye, Professor Fogg

**33. Comparative Criticism**—a comparative study of the drama—Greek, Spanish, French, and English. Mainly a reading course, controlled by reports, critiques, and lectures. Intended to give the students some sort of foundation for the critical appreciation of literature. A reading knowledge of French is indispensable. Admission by consent of the instructor. Two hours attendance. Three or four hours credit. First semester.

Head Professor Frye

**34. Comparative Criticism**—33 continued. Second semester.

### Reading and Elocution

Adjunct Professor Howell and Mr. Davis

The following courses provide training in oral English:

#### COURSES PRIMARILY FOR UNDERGRADUATES

**35. Reading and Speaking**—The aim is to secure naturalness and sincerity in reading and speaking, to preserve the individuality of the student, and to obtain freedom from self-consciousness. Special attention to voice culture, correct articulation and definite gesture. Analysis and vocal interpretation of selections from orators, essayists, dramatists, and poets. Class recitals. Three hours attendance. Two hours credit. First semester.

Adjunct Professor Howell

**36. Reading and Speaking**—35 continued. Prerequisite, course 35. Second semester.

**37. Dramatic Interpretation**—Critical study of Shakespearean and modern plays. Prerequisite: Courses 35 and 36. Three hours attendance. Two hours credit. First semester.

Adjunct Professor Howell

**38. Dramatic Interpretation**—37 continued. Second semester.  
(Courses 37 and 38 alternate with 37a and 38a.)

**[37a. Dramatic Interpretation]**—Advanced study of voice culture, impersonation, pantomime, and gesture. Interpretation of various kinds of dramatic literature—prose and poetry. Special attention to the oration

and critical study of *Hamlet*, *As You Like It*, *The Rivals*, and also of some modern play. Analysis of plot, character, and incidents. Dramatic presentation of principal scenes before the class. Prerequisite, courses 35 and 36. Three hours attendance. Two hours credit. First semester.

Adjunct Professor Howell]

*Not given in 1911-1912.*

[38a. **Dramatic Interpretation**—37 continued. Second semester.]

*Not given in 1911-1912.*

(Courses 37a and 38a alternate with 37 and 38.)

**39. Reading and Interpretation (Advanced Course)**—A study of the oral interpretation of masterpieces of literature with the aim of acquiring a repertoire. Lectures on vocal technique. Each member of the class is required to interpret various kinds of selections for a program—one strongly dramatic narrative selection, one humorous, and one scene from the classic or modern drama—which material is chosen to give the strongest personal development and also to serve as a repertoire. Criticism on delivery of after-dinner and other forms of extemporaneous address. Membership limited to fifteen. Admission by consent of instructor. Public recitals. Two hours attendance. Two hours credit. First semester.

Adjunct Professor Howell

**40. Reading and Interpretation (Advanced Course)**—39 continued. Second semester.

**41. Public Speaking**—Intended especially for students who wish to prepare themselves for public speaking—debate and other forms of public address. Its object is to assist the student in acquiring an effective oral style—clear, direct, simple. Text-book, individual drill. Special attention to voice and gesture. Practive in various forms of extemporaneous speaking. Critical work in the delivery of one original oration each semester. Membership limited to fifteen. Admission by consent of the instructor. Three hours attendance. Two hours credit. First semester.

Adjunct Professor Howell, Mr. Davis

**42. Public Speaking**—41 continued. Second semester.

**43. Teachers' Course**—Special course for teachers in city schools and for students in the Teachers College. Intended to strengthen the teaching of reading by the formation of an intelligent reading habit. Analysis of selections from the best literature and the application of principles of interpretation to class-room and platform work. Special attention to articulation, pronunciation, and voice-development. Model classes; individual criticism. Discussion of programs and of supplementary literature for

class-room use. Two hours attendance. Two hours credit. First semester.

Adjunct Professor Howell

44. Teachers' Course—43 continued. Second semester.

### ROMAN HISTORY AND LITERATURE

Head Professor Barber, Assistant Professor Sanford,  
Adjunct Professor Hunter, Miss Grimm

The instruction aims to impart an understanding of the principles of the language through a study of its development and wide reading in the literature. The intention is to lead the student to build up his grammatical knowledge and to master the laws of the language from his own reading.

The instruction is not confined to linguistic and literary lines solely. The character and institutions of the Roman people are also studied with the view of leading students to an understanding of ancient Roman civilization and its bearing on modern life.

The required courses for the University Teachers' Certificate in Latin as a major are, 1, 2, 3, 4, 5, 6, 7, and 8. No minor is given. Equipment work in the department may be substituted for 5 and 6 upon consultation with the head. The above courses must be preceded by the four years high school preparation, including composition (one period per week for two years) and a thorough drill in the grammar. Students found to be defective in preparation may be required to take courses E and F in addition to the above.

In connection with this department is maintained a Latin Club of advanced students elected on the basis of scholarship. Monthly meetings are held devoted to the reading of papers, choice passages of Roman literature, discussions, and Latin conversation. Eighty per cent of the dues are set aside for the purchase of some permanent memorial for the department.

### MASTER OF ARTS

Candidates for advanced degrees must have completed courses 1, 2, 3, and 4, or their equivalents. Graduate study should include courses 5, 6, 11, and 12, after which subjects may be selected from any courses open to graduates. The basis of requirement is as follows:

Second Minor: Three hours of classroom work for one year.

First Minor: Six hours of class-room work for one year.

Major: Six hours of class-room work and the equivalent for four hours in the preparation of a thesis.

Complete Course: Nine hours of classroom work and the equivalent of six hours in the preparation of a thesis.

These may be prepared on any of the following subjects; the satirists, the Roman drama, Roman history, Roman oratory, elegic poetry, poetry of the empire, prose of the republic, prose of the empire, sermo plebeius, patristic literature. By special arrangement, a thesis may be prepared on some question of syntax covering the whole literature.

#### COURSES FOR UNDERGRADUATES

To enter course A the student must have had four books of Caesar with Latin composition. To enter course 1 the student must have completed courses A, B, C, and D.

Courses A and B give the student two preparatory credit "points" or six hours of college credit. Courses C and D two preparatory credit "points" and two hours of college credit, or ten hours of college credit.

A. **Cicero**—Three orations; Latin composition, drill in syntax. In written exercises the long vowels are marked. Three hours attendance. Three hours credit. First semester. Miss Grimm

B. **Cicero**—A continued. Second semester.

C. **Vergil**—Three books of the *Aeneid*. Drill in prosody, case and verb construction, and poetic expressions. Five hours attendance. Five hours credit. First semester. Adjunct Professor Hunter

D. **Vergil**—Three books of the *Aeneid*. Ovid's *Metamorphoses*. Two books. Drill as in C. Metrical reading of hexameters at sight. Practical examination of tense uses. Literary art of Vergil. Five hours attendance. Five hours credit. Second semester. Adjunct Professor Hunter

E. **Practical Course in Latin Syntax**—Practical drill in the principles of Latin syntax, preparatory to rapid and accurate reading. Two hours attendance. Two hours credit. Adjunct Professor Hunter

F. **Practical Course in Latin Syntax**—E continued. Special practice in translating long paragraphs of connected discourse.

1. **Cicero**—*De Senectute* with Latin composition. Drill in the syntax of moods and tenses; special attention to the classification of subordinate clauses. Four hours attendance. Four hours credit. First semester.

Head Professor Barber, Adjunct Professor Hunter

2. **Livy**—Books XXI and XXII. Practice in sight reading. Study of moods and tenses and subordinate clauses continued. Four hours attendance. Four hours credit. Second semester.

Head Professor Barber, Adjunct Professor Hunter

3. **Horace**—Selected Odes, Epodes, Satires, Epistles and *Ars Poetica*. A few passages memorized; occasional summaries; a brief view of social life in Horace's time; prosody. Four hours attendance. Four hours credit. First semester.

Assistant Professor Sanford

4. **Plautus and Terence**—*Captivi* and *Adelphoe*. A brief introduction to Roman drama; prosody. Tacitus' *Agricola* and *Germania*. The *Germany* studied for its bearing on the customs and laws of modern German peoples. Four hours attendance. Four hours credit. Second semester.

Assistant Professor Sanford

43. **Teachers' Course**—Lectures on methods of teaching Latin and on subject matter often overlooked. Model reading of sub-freshman authors. Courses 43 and 44 may be taken in lieu of two hours in general methods in the department of Education. One hour attendance. One hour credit. First semester.

Head Professor Barber

44. **Teachers' Course**—43 continued. Second semester.

49. **Roman Oratory**—General survey of the development of Roman oratory from the earliest period. Detailed study of the structure of speeches, methods of delivery, and effectiveness. Types of oratory employed at funerals, before armies, in the senate and forum. Lectures and reports. Two hours attendance. Two hours credit. First semester.

Adjunct Professor Hunter

50. **Roman Oratory**—49 continued. Special reference to oratory in the last days of the republic. Second semester.

#### COURSES FOR UNDERGRADUATES AND GRADUATES

5. **Suetonius**—Lives of Julius and Augustus Caesar. Sight reading. Talks upon Roman life. Papers by the class. Two hours attendance. Two hours credit. First semester.

Head Professor Barber

6. **Pliny and Juvenal**—Selected letters. Selected satires. Reading from hearing. Collateral readings on Roman social life. Two hours attendance. Two hours credit. Second semester. Head Professor Barber

7. **Roman Archaeology**—Following are some of the subjects treated: Amphitheaters, aqueducts, arches, architecture, basilicas, bath houses, building materials, catacombs, circi, columns, fortifications, fora, methods of building, ruins, temples, theatres, topography, walls, war implements. Lectures illustrated with lantern slides. Papers are required of students on special topics. One hour attendance. One hour credit. First semester.

Head Professor Barber

8. **Roman Antiquities**—Public and private life of the Romans; dress and ornaments, household furniture, kitchen utensils, museums, manu-

scripts, pottery and vases, private houses, public buildings, sculpture, Vesuvius, Pompeii and Herculaneum, wall decorations. Lectures illustrated with lantern slides. Papers as in course 7. One hour attendance. One hour credit. Second semester.

Head Professor Barber

9. **Cicero's Letters**—Selections arranged to throw light upon life and time of Cicero. Lectures on the style of the letters. Two hours attendance. Two hours credit. First semester. Assistant Professor Sanford

[10. **Quintilian**—Book X and selections from Book XII. Books I and II assigned for collateral reading as showing the educational methods in the first century A. D. Two hours attendance. Two hours credit. Second semester.

Assistant Professor Sanford]

*Not given in 1911-1912.*

11. **Composition**—A brief, illustrated review of the syntax of noun and verb, followed by practice in connected Latin writing. One hour attendance. One hour credit. First semester. Assistant Professor Sanford

12. **Composition**—11 continued. Second semester.

13. **Latin Grammar**—An elementary course in historical development of Latin moods. Tenses. Pronunciation. Lectures. One hour attendance. One hour credit. First semester.

Head Professor Barber

14. **Latin Grammar**—13 continued. Second semester.

[15. **Plautus and Terence**—Course in rapid reading of seven or eight plays. Lectures on history of Roman drama. Two hours attendance. Two hours credit. First semester.

Assistant Professor Sanford]

*Not given in 1911-1912.*

16. **Cicero**—Tusculan Disputations, Book I, studied with reference to Roman ideals concerning immortality. Selections from Lucretius, Seneca, and Buecheler's Carmina Latina Epigraphica. Two hours attendance. Two hours credit. Second semester.

Assistant Professor Sanford

17. **Roman History**—From the earliest times through the early empire. Primarily for those preparing to teach Latin in secondary schools. Open to juniors and seniors only. Text-book. Lectures. Two hours attendance. Two hours credit. First semester.

Assistant Professor Sanford

18. **History of Roman Literature**—Lectures, with selections from representative authors. Open to juniors and seniors only. Two hours attendance. Two hours credit. Second semester.

Assistant Professor Sanford

21. **Latin Morphology**—Latin in its relation to the other languages of the Aryan group. Sounds and their combinations, accent, and principles of word formation and derivation. Survey of the great laws of linguistic

growth and change as illustrated in Latin. Lectures and readings. One hour attendance. One hour credit. Adjunct Professor Hunter

22. **Latin Morphology**—21 continued with historical study of the development of Latin. Second semester.

[27. **Vergil**—Selections from the Eclogues, Georgics, and Books VII-XII of the *Aeneid*, rapid reading course, of particular interest to prospective teachers of Latin. Special topics assigned for investigation by members of the class. Two hours attendance. Two hours credit. First semester. Assistant Professor Sanford]

*Not given in 1911-1912.*

[28. **Ovid**—Selections from the *Heroides*, *Amores*, *Fasti*, *Metamorphoses*, and *Tristia*, a companion course to 27. Two hours attendance. Two hours credit. Second semester. Assistant Professor Sanford]

*Not given in 1911-1912.*

29. **Tactius**—Selections from the Annals and Histories, treated as a basis for the history of the Empire from 14 to 70 A. D. Two hours attendance. Two hours credit. First semester.

Assistant Professor Sanford

30. **Martial**—Selected Epigrams, in illustration of Roman life under the early Empire. Two hours attendance. Two hours credit. Second semester. Assistant Professor Sanford

[31. **The Elegiac Poets**—Selections from Catullus and Tibullus. Lectures on the history of Roman elegiac poetry. Two hours attendance. Two hours credit. First semester. Assistant Professor Sanford]

*Not given in 1911-1912.*

[32. **The Elegiac Poets**—Selections from Propertius and Ovid. 32 continued. Second semester.]

*Not given in 1911-1912.*

[33. **Cena Trimalchionis**—This social novel studied with reference to Romance languages, but especially to popular speech (*sermo plebeius*) and customs of the times. One hour attendance. One hour credit. First semester. Assistant Professor Sanford]

*Not given in 1911-1912.*

[34. **Cena Trimalchionis**—33 continued. Second semester.]

*Not given in 1911-1912.*

[35. **Roman Religion and Mythology**—A lecture course. Occasional papers and reports by members of the class. One hour attendance. One hour credit. First semester. Assistant Professor Sanford]

*Not given in 1911-1912.*

[36. **Roman Religion and Mythology**—35 continued. Second semester.]

*Not given in 1911-1912.*

**37. Roman Law**—Reading of selections from the public and private law of the Romans, accompanied by lectures. One hour attendance. One hour credit. First semester. Assistant Professor Sanford

**38. Roman Law**—37 continued. Second semester.

#### COURSES PRIMARILY FOR GRADUATES

[19. **Lucretius**—Books I and III, with an examination into modal uses of the remaining books. Two hours attendance. Two hours credit. First semester. Head Professor Barber]

*Not given in 1911-1912.*

[20. **Cicero**—*de Oratore*, Book I, with an examination into modal uses in Cicero's essays. Two hours attendance. Two hours credit. Second semester. Head Professor Barber]

*Not given in 1911-1912.*

[23. **Latin Palaeography**—A study of Latin manuscripts. One hour attendance. One hour credit. Assistant Professor Sanford]

*Not given in 1911-1912.*

[24. **Roman Epigraphy**—Study of select inscriptions. One hour attendance. One hour credit. Second semester. Assistant Professor Sanford]

*Not given in 1911-1912.*

[25. **Seminary**—Special study of the syntax of the verb. Topics are assigned to students to investigate through the whole range of the literature. Two hours attendance. Two hours credit. First semester. Head Professor Barber]

*Not given in 1911-1912.*

[26. **Seminary**—25 continued. Second semester.]

*Not given in 1911-1912.*

[45. **The Personal and National Characteristics of the Roman People**—Lectures. Papers by the students. One hour attendance. One hour credit. First semester. Head Professor Barber]

*Not given in 1911-1912.*

[46. **The Personal and National Characteristics of the Roman People**—45 continued. Second semester.]

*Not given in 1911-1912.*

#### ROMANCE LANGUAGES AND LITERATURES

Professor Conklin, Assistant Professor Korsmeyer, Instructor Reese,  
Assistant, Fellow

General undergraduate work enables the student to read modern and classical French with critical accuracy and appreciation.

Special undergraduate work provides for extended literary study in French, for practical drill in writing and speaking French and for the study of Italian and Spanish. Advanced students may, with the consent of the head of the department, avail themselves of the instruction offered in the Graduate College.

For the University Teachers' Certificate the following courses, or equivalents, are required: Major, courses 1 to 12 inclusive, and 51, 52; minor, courses 1 to 12 inclusive. Four semesters in the high school or three semesters in the University (Courses 1, 2, 3—13 hours) before specialization is really begun.

#### REQUIREMENTS FOR MASTER OF ARTS

For graduate study in Romance languages at least three years of French are necessary. For the courses in the following groups equivalents are accepted.

Philological Group—Second Minor: Old French, historical French grammar, Italian, or Spanish. First Major: Requirements for second minor and further study of Old French and of Italian or Spanish. Major: Old French, historical French grammar, Italian, and Spanish, advanced course in either Italian or Spanish, Provencal, Romance phonetics.

Literary Group—Second Minor: Studies of different periods in French literature, Italian, or Spanish. First Minor: Studies of different periods in French literature, Italian, and Spanish, or advanced course in Italian or Spanish, Old French. Major: French writing and speaking; studies of different periods in French literature; Italian and Spanish, advanced course in either Italian or Spanish; Old French, historical French grammar, special readings.

#### COURSES PRIMARILY FOR UNDERGRADUATES

##### French

**1. French**—Introductory course. Five hours attendance. Five hours credit. First semester.

Professor Conklin, Assistant Professor Korsmeyer, Instructor Reese

**2. French**—1 continued. Second semester.

**3. French**—Second-year course. Advanced reading. Three hours attendance. Three hours credit. First semester.

Professor Conklin, Assistant Professor Korsmeyer, Miss Reese

**4. French**—3 continued. Second semester.

**5. French Writing and Speaking**—Must be taken with 3. Two hours attendance. Two hours credit. First semester.

Professor Conklin, Assistant Professor Korsmeyer

**6. French Writing and Speaking**—5 continued. Must be taken with 4. Second semester.

7. Classical Authors—One hour attendance. One hour credit. First semester. Miss Reese
8. Classical Authors—7 continued. Second semester.
9. Romantic School—Two hours attendance. Two hours credit. First semester. Assistant Professor Korsmeyer
10. Romantic School—9 continued. Second semester.
11. French Writing and Speaking—Advanced course (Teachers' course). Two hours attendance. Two hours credit. First semester. Professor Conklin
12. French Writing and Speaking—11 continued. Second semester.
13. Modern French Drama and Novel—One hour attendance. One hour credit. First semester. Professor Conklin
14. Modern French Drama and Novel—13 continued. Second semester.

### Spanish

31. Spanish—Introductory course. Five hours attendance. Five hours credit. First semester. Professor Conklin, Miss Reese
32. Spanish—31 continued. Second semester.
33. Spanish—Second year course. Three hours attendance. Three hours credit. First semester. Professor Conklin, Miss Reese
34. Spanish—33 continued. Second semester.
35. Spanish—Third-year. Two hours attendance. Two hours credit. First semester.
36. Spanish—35 continued. Second semester.

### COURSES FOR UNDERGRADUATES AND GRADUATES

#### French

15. Studies of Different Periods in French Literature—Prerequisite: Courses 7, 8, 9, 10, or equivalent work. Two hours attendance. Two hours credit. First semester. Professor Conklin
16. Studies of Different Periods in French Literature—15 continued. Second semester.
17. French Literature—16 continued. First semester.
18. French Literature—17 continued. Second semester.

#### Italian

41. Italian—Introductory course. Three hours attendance. Three hours credit. First semester. Assistant Professor Korsmeyer
42. Italian—41 continued. Second semester.
43. Italian—Second-year course. Two hours attendance. Two hours credit. First semester. Assistant Professor Korsmeyer

## 44. Italian—43 continued. Second semester.

## COURSES PRIMARILY FOR GRADUATES

## French

51. **Old French**—Grammar and reading. Two hours attendance. Two hours credit. First semester. Professor Conklin

52. **Old French**—51 continued. Second semester.

55. **French Philology**—Historical French grammar, phonetical analysis of French words. One hour attendance. One hour credit. First semester. Professor Conklin

56. **French Philology**—55 continued. Second semester.

## Provencal

61. **Grammar, Reading, and Analysis**—One hour attendance. One hour credit. First semester. Professor Conklin

62. **Provencal Literature**—Second semester.

## Romance Phonetics

65. **Comparative Phonetics of Italian, Spanish, French and Provencal**—Lectures. One hour attendance. One hour credit. First semester. Professor Conklin

66. **Comparative Phonetics of Italian, Spanish, French and Provencal**—65 continued. Second semester.

## SANSKRIT

1. **Beginners' Course**—Inflections and conjugations. Whitney's Sanskrit Grammar and interpretation of an easy text. Two hours attendance. Three hours credit. First semester. Head Professor Lees

2. **Elementary Sanskrit**—Selected readings from the Nala and the Hitopadeca as given in Lanman's Sanskrit Reader. Two hours attendance. Three hours credit. Second semester. Head Professor Lees

These courses in elementary Sanskrit are designed primarily for graduate students, but they may also be profitably pursued by advanced and aspiring students in English, German, Greek, French, and Latin. The aim of the first year's work is to give the student such a knowledge of Sanskrit forms and elementary syntactical structure as to assist greatly in the comprehension and mastery of similar phenomena in all the European languages.

## COMPARATIVE PHILOLOGY

3. **The Elements of Linguistic Science**—Comparative philology of the

more familiar divisions of the Indo-European family of languages. Lectures and discussions. One hour attendance. One hour credit. First semester.

Head Professor Lees

4. **The Elements of Linguistic Science**—3 continued. Second semester.

### DEPARTMENT OF SLAVONIC ADJUNCT PROFESSOR ŠÁRKA HRBKOVÁ.

1. **Beginners' Course.**—Grammar, vocabulary, exercises, word structure. Selected readings from Reader. Five hours attendance. Five hours credit. First semester.

2. **Beginners' Course.**—1 continued. Grammar continued. Conversation. Selections from "Babička" by Božena Němcová, "Pověsti" by Jirásek, "Humoresky" by Rubeš, "Ohlasy" by Čelakovský. Five hours attendance. Five hours credit. Second semester.

3. **Bohemian Literature.**—Reading and interpretation of Erben's "Kytice Pověstí," Neruda's "Povídky," Havlíček's "Tyrolské Elegie" and "Epigramy." Three hours attendance. Three hours credit. First semester.

4.—**Bohemian Literature.**—3 continued. Reading and interpretation of Jirásek's "Filosofská Historie," Hálek's "Básně," "Divá Bára" by Němcová. Three hours attendance. Three hours credit. Second semester.

5. **Bohemian Literature.**—Svatopluk Čech's "Povídky a Arabesky," "Jestřáb contra Hrdlička," "Písně Otroka," "Lešetínský Kovář." One to three hours attendance. One to three hours credit. First semester.

6. **Bohemian Literature.**—5 continued. Dramas by Tyl, Šubert, Vrchlický, Kollar's "Slávy Dcera." One to three hours attendance. One to three hours credit. Second semester.

7. **Short Story Course.**—Readings and reports. Authors considered: Čech, Machar, Klecanda, Němcová, Třebízský, Neruda. Two hours attendance. Two hours credit. First semester.

8. **Short Story Course.**—7 continued. Modern Bohemian, Russian, and Polish writers. The structure of the short story. Composition. Two hours attendance. Two hours credit. Second semester.

9. **Conversation.**—Class-room exercises in Bohemian. Idiomatic and colloquial expressions. Review of grammar. Prerequisite: Bohemian 1 and 2 or satisfactory equivalent. Two hours attendance. Two hours credit. First semester.

10. **Conversation.**—9 continued. Practice in every-day Bohemian. Composition. Two hours attendance. Two hours credit. Second semester.

11. **Slavic Life.**—A lecture course in English on Slavic life. Illustrated by 700 lantern slides covering subjects of history, customs, homes, occupations, costumes, amusements, child life, architecture, development of

the arts and industries and growth of social and educational ideals among the Slavic nations. One hour attendance. One hour credit. First and second semesters.

12. **Immigration.**—A general view of the problem of the immigrant with special reference to the Slav. Sources and causes of emigration, racial, economic, political and social effects of immigration; assimilative forces at work; distribution of immigrants; character of recent immigration; restrictive and non-restrictive measures; proposed solutions of the problem. Two hours attendance. Two hours credit. First and second semesters.

13-14. **History of Bohemian Literature.**—From the earliest times to the modern period. Based on Lutzow's "History of Bohemian Literature," Wratislaw's "The Native Literature of Bohemia in the Fourteenth Century," Pypin and Spasovič's "Historie Literatur Slovanských," Vlček's "Dějiny Poesie České," "Literatura Česká Devatenáctého Století," Tieftrunk, Jungmann, Morfil, Ninger. Two hours attendance. Two hours credit. First and second semesters. (Unless desired by a sufficient number of advanced students, this course will not be given.)

## ZOOLOGY

Head Professor Wolcott, Professor Powers, Associate Professor Barker, Mr. Medlar, and Assistants; Professor Willard

### GENERAL INFORMATION

Besides a lecture room and the private rooms used by members of the staff, the department possesses a large general laboratory, laboratories for advanced and research work, quarters for housing living animals, a library, and a well stocked storeroom. The usual equipment is at hand, including microscopes and projection lantern, slides, charts, models, and demonstration material of various kinds. Worthy of note is a large series of marine forms from the Naples Zoological Station supplemented by other marine and fresh-water material, a set of the Thiersch injected tissues, models by Ziegler, Dahlgren, and others, and a large collection of lantern slides and specimens illustrating parasitism, variation and other biological phenomena.

Students entering upon the study of zoology should begin with courses 1 and 2, or A, of which at least 1 is required for admission to all subsequent courses, except 21 and 22 and 36. Students looking forward to the study of medicine have offered to them, after completing courses 1 and 2, course 3 or 15, 6, 7, and as electives 17 and 18. Forestry students may elect 14, after taking 1. Others desiring to do so and with sufficient reason, may, with the consent of the instructor, follow 1 by 12. Those expecting to teach will find it advantageous to elect 1 and 2, or A, followed or accompanied by 31, or 36; the requirements for the University Teachers' Certificate

in this department being: for a major, courses 1, 2, 3, 6 or 7, 21, 22, and 33, and for a minor, courses 1, 2, 3, and 33 (12 hours), or 1, 2, 3, 6, and 33 (16 hours). Those who plan to specialize in zoology, after completing courses 1 and 2, should take 3 and 6, and then may select further work from the several lines open to them.

Attention is called to the opportunities for preparation in lines leading to professional work in zoology. A course in economic zoology and entomology is offered which fits the student for experiment station work, and government work in entomology; by slight modification and the proper use of electives the course furnishes suitable preparation for the work of the U. S. Biological Survey. The student may also, by the election of courses in parasitology, animal pathology, etc., readily adapt his preparation to the needs of the work in the Bureau of Animal Industry, and by the selection of certain courses chosen with the advice of the head of the department, prepare himself for work in the new laboratories of the Bureau of Fisheries, now being established. In all these lines there is a steady demand for properly trained men at good salaries. Students considering entering upon any of these lines of work are urged to consult freely with the head of the department.

Attention is particularly directed to the zoological work carried on under the separate departments of Entomology and of Histology and Embryology, the work of which supplements that of this department and must be considered by the special student who desires a well rounded course. Work in Biometry is offered in connection with the department of Mathematics.

The ability to read German and French is of great advantage in all courses in the department and is required in all graduate work.

#### FACILITIES FOR GRADUATE STUDY

One laboratory is devoted exclusively to research students, and there are also available a photographic room equipped with the necessary apparatus, an aquarium room abundantly provided with tanks and running water, and a live house for the keeping of larger animals. The supply of apparatus includes apochromatic lenses, Zeiss and Leitz microscopes, Reinhold-Giltay, Minot and Thoma microtomes, Lillie and Naples paraffin baths, and all necessary subsidiary apparatus, including that for drawing and photographic work.

The department possesses alcoholic material which offers attractive opportunities for investigation along certain lines. Especially noteworthy is a very large collection of mites, a comparatively unworked group of great economic and scientific importance. There is a rapidly growing collection of parasitological material, affording good opportunities for investigation in that field.

A specialty is made of the maintenance in the aquarium room of permanent colonies of protozoa and a number of the lower invertebrates under various environmental conditions, which permits of extensive study of life histories and variation in these forms.

The library, adjacent to the laboratory and containing approximately 2,500 volumes, is especially strong in sets of publications of scientific societies and institutions and of zoological periodicals, and is supplemented by the private libraries of members of the staff which are accessible to research students working under their direction. The general University Library and the libraries of the College of Medicine, of the Nebraska Experiment Station, and of allied departments, furnish many valuable series in addition.

The publications of the departmental staff and of graduate students are included in a series entitled "Studies from the Zoological Laboratory," of which five volumes, comprising Nos. 1 to 100 have been completed, and of which numbers 101 to 103 have been published, while others are in course of preparation.

#### MASTER OF ARTS

To register as a candidate for the degree of Master of Arts, a student must have completed two years of undergraduate work in zoology and one in botany. Before entering upon graduate work in zoology, the student must consult with the head of the department as to the details of his course, even though his work may actually be done under the immediate direction of another member of the staff. The ordinary requirements are as follows:

Minor: An amount of advanced work equivalent to six credit hours throughout the year, together with a two-hour course of assigned reading.

Major: An amount of advanced work equivalent to 12 credit hours throughout the year, including a thesis and accompanied by the proportionate amount of assigned reading.

Complete course: The whole time of the student for the year is spent in the field of zoology, and the subject selected for the thesis is accordingly more difficult than in the preceding case.

#### DOCTOR OF PHILOSOPHY

The preparation required of the student is the same as for the Master's degree. The latitude allowed in the election of subjects is naturally much less, but the equipment of the department is such that in certain directions it is possible to offer work for this degree with zoology as a major. Of course the student must undertake such work only with the advice of the head of the department. The requirements are:

**Minor:** An amount of work approximating that of the complete course for the degree of Master of Arts.

**Major:** A course of graduate study which shall meet at least the minimum time requirement imposed by the graduate college, and the preparation of a thesis which shall represent original research.

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. Introduction to Zoology**—For beginners and those wishing a general insight into methods and principles of the science. The lectures cover the general principles of morphology, physiology, development, classification and evolution of animals; the laboratory work, an intensive study of types drawn from the Protozoa and simpler invertebrates, together with subsidiary cytological and embryological material. Three hours attendance. Four hours laboratory. Three hours credit. First semester.

Professor Powers and Assistants

**2. Introduction to Zoology**—1 continued. Second semester.

**A. General Zoology**—For beginners and those who desire to complete a year's work in general zoology in one semester. This course covers the same field as courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours or, with additional assigned work, six hours credit. Second semester.

Associate Professor Barker, Mr. Medlar

#### COURSES FOR UNDERGRADUATES AND GRADUATES

**3. Invertebrate Morphology**—Echinodermata, Arthropoda and Mollusca. The lectures cover morphology and taxonomy, the laboratory work comprises gross dissection and microscopical study, and the course serves as an introduction to misroscopical technique. Intended for the general student. (The Phyla, Protozoa, Porifera, Coelenterata, and the worms are handled in alternate years, and may be expected in 1912-1913.) Three hours attendance. Eight hours laboratory. Four hours credit. First semester. Prerequisites: Courses 1 and 2, or equivalent.

Associate Professor Barker, Mr. Medlar

**6. Comparative Anatomy of the Vertebrates**—The lectures cover the entire group of vertebrates. The laboratory work includes the dissection of a fish, amphibian, reptile or bird, and mammal, with demonstrations from preparations in other groups. Methods of preparing dissection material and making injections of circulatory system. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester. Prerequisites: Courses 1 and 2, or equivalent.

Professor Willard and Assistants

**7. Comparative Osteology of the Vertebrates**—A study in morphology,

with the skeleton as a basis. The lectures are general and comparative. For the academic student laboratory work of similar character is arranged. For students in medicine and in physical training who expect to go on to human anatomy, the laboratory work involves a detailed study of the human skeleton, which is done in the anatomical laboratory in connection with the work in human anatomy (Anatomy 1 or 15). Two hours attendance. Four hours laboratory. Two hours credit. First semester. Should be preceded or accompanied by courses 1 and 2 or A.

Head Professor Wolcott

**[9. Advanced Work in Animal Morphology]**—Devoted to the study of some assigned problem in morphology. Laboratory work with conferences and reading. May be elected as a five to ten hours study. First semester. Elected only after consultation with instructor.

Head Professor Wolcott, Professor Powers,  
or Associate Professor Barker

**10. Advanced Work in Animal Morphology**—9 continued. Second semester.

**12. Economic Zoology**—A course in which the economic aspects of zoology are emphasized. Lectures, laboratory and field work. Intended for those specializing in agricultural subjects. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester. Must be preceded by courses 1 and 2, or by permission of the instructor may follow 1.

Head Professor Wolcott

**14. Forest Zoology**—Devoted to a study of the animal life of the forest, exclusive of insects, with particular attention to forms which are beneficial or injurious and which affect the propagation and spread of forest trees either in a state of nature or under cultivation. Intended especially for students in forestry. Two hours attendance. Four hours laboratory and field work. Two hours credit. Second semester. May be taken by forestry students after course 1.

Head Professor Wolcott

**15. Medical Zoology**—Lectures on morphology, taxonomy and relation to medicine of the groups Protozoa, Platyhelminthes, Nemathelminthes and Arthropoda and their role in the production and transmission of disease. The laboratory work comprises gross dissection and microscopical study and serves as an introduction to microscopical technique. Intended especially for the medical student. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Prerequisites: Courses 1 and 2.

Associate Professor Barker

**17. Animal Parasites**—Taxonomy, morphology, biology and economic relationship of animal parasites. Lectures, laboratory and field work. The handling of a simple assigned problem. Two hours attendance. Four

to twelve hours laboratory May be elected as a two to five hour course. First semester. Open to students who have had Zoology 1, 2, and 3 or 15, or their equivalent. Associate Professor Barker

18. **Animal Parasites**—Course 17 continued. Second semester.

21. **Organic Evolution**—The first semester is devoted to the historical development of the doctrine of evolution from approximately the beginning of the eighteenth century to the last quarter of the nineteenth, covering the work of Darwin's most influential predecessors, of Darwin himself, and of his contemporary followers and critics. Lectures and assigned readings. Designed for the general student and requiring no previous work in zoology; not accepted as fulfilling the requirement represented by Group 8 of the required electives. Two hours attendance. Two hours credit. First semester. Professor Powers

22. **Organic Evolution**—Course 21 continued. Modern experimental evolution and recent genetic theories, with a discussion of the theoretical and practical bearings of proven results. Second semester.

Professor Powers

25. **Advanced Work in Experimental Zoology**—Individual work on an assigned problem. Laboratory work with conferences and assigned readings. May be elected as a five to ten hour subject. First semester. May be taken only by permission of instructor. Professor Powers

26. **Advanced Work in Experimental Zoology**—Course 25 continued. Second semester.

27. **Advanced Work on Local Fauna**—A course in ecology, devoted to the study of some problem connected with the distribution within the state of a certain group of animals, or with the fauna of a certain habitat. The aquarium room offers facilities for keeping material throughout the winter. Field and laboratory work with conferences and assigned reading. May be elected as a five to ten hour course. First semester. Open only to a limited number, by permission of instructor.

Head Professor Wolcott or Professor Powers

28. **Advanced Work on Local Fauna**—Course 27 continued. Second semester.

31. **Field Zoology**—From six to ten field trips taken on Saturdays, covering usually one half day each, and under the direct supervision of the instructor, the object being the direct study of the local fauna and the cultivation of habits of outdoor observation. Emphasis is laid upon the study of aquatic life. Field notes, a limited amount of reading, and a written report on at least one subject required of each student. This work is correlated closely with that done in Zoology 1 and 2, is open only to those who have taken or are taking these courses, and is especially ad-

vised for those who expect to teach zoology. Any person who is not accustomed to outdoor exercise should consult with the instructor before electing the course. The course is elective in either the first or the second semester but continues throughout two semesters, the total amount of work required being equivalent to one credit hour, and no credit being given for less than the full course.

Professor Powers

33. **Methods in Teaching Zoology**—A course for high school teachers, including a discussion of the methods of presenting the subject, of the choice of books and of the collection and handling of laboratory materials. Two hours lecture and conference. Assigned reading, laboratory and field work in addition. Two hours credit. First semester. Open regularly to students who have taken courses 1 and 2 or A, 3, and 6 or 7, to others only by permission of the instructor.

Head Professor Wolcott

36. **Ornithology and Nature Study (Teachers' Course)**—A course in ornithology which may be supplemented by a systematically arranged series of problems designed to train the power of direct observation and deduction from such observation. Planned especially for those expecting to teach in the grades. May be elected as a one hour course in ornithology, demanding one hour attendance and an average of two hours of field and laboratory work weekly, or as a two hour course in nature study, demanding in addition a conference hour and an additional field or laboratory period of two hours. Second semester. Open to all but recognized in part fulfillment of the group requirement for a degree only if elected as a 2-hour subject, and by arrangement with the instructor.

Head Professor Wolcott, Mr. Zimmer

41. **Seminar**—Reviews of recent literature and discussion of current problems. Participated in by the department staff and open to election by advanced and graduate students, of whom are required reports on assigned readings. One hour attendance. One hour credit. May be elected more than once. First semester.

42. **Seminar**—41 continued. Second semester.

43. **Research**—The equipment of the department and the library facilities are such that research along certain lines indicated below is being carried on. An extensive Salt Basin, including a salt lake over a mile in extent and alkali flats with numerous ponds, all within a few minutes' walk of the campus, offer noteworthy opportunities for certain types of investigation.

a. Morphology of the mites. Ecological studies and investigations on the local fauna. Study of variation in certain insect groups, particularly the tiger-beetles.

Head Professor Wolcott

b. Morphology of the protozoa. Experimental research on reproduction

of fresh-water hydroids and rotifers; and on problems involving growth, regeneration, color pattern, etc. in the salamander. Variational and distributional studies on the animal life of ponds, especially those of the Salt Basin.

Professor Powers

c. Morphology of the parasitic protozoa and worms.

Associate Professor Barker

### UNIVERSITY EXTENSION

J. L. McBrien, Director

Aim of Regents—The constant aim of the Regents of the University of Nebraska is to make the University a school of the people, by the people, and for the people—to bring the University and the home in closer touch; to give every citizen a chance to get the highest education at the smallest possible cost; to take the University to all the people of the state who are unable to adjust themselves to the formal system of education.

Purpose of University Extension—The purpose of University Extension work is to give all persons who are unable to formally attend school an opportunity through correspondence study to investigate all problems—artistic, literary, historical, social, industrial, moral, political, educational,—problems in sanitation, city lighting, sewerage; banking, crises, money, divorce,—in fine, all problems that may concern the citizens of Nebraska.

To Whom the Work Appeals—University Extension work, therefore, appeals to the following classes of persons: (1) rural, grade, and high school teachers who cannot avail themselves of resident instruction; (2) students preparing for college; (3) college students who are unable to pursue continuous resident study; (4) teachers and others who have a partial college course and wish to work along some special line; (5) instructors in higher institutions who desire assistance in the advance study of some subject; (6) professional and business men who wish technical information; (7) ministers and Bible students who wish to study the sacred scriptures from a literary standpoint; (8) all who desire a broader knowledge or a more thorough and comprehensive scholarship.

Division of Work—As a matter of convenience, the work is divided into four departments as follows:

- I. Correspondence-Study.
- II. Instruction by Lectures.
- III. Debating and Public Discussion.
- IV. General Information and Welfare.

#### I. Correspondence-Study

The possibility and efficiency of teaching by correspondence-study has

already been demonstrated by practical experience in University Extension work in the leading universities and colleges of both Europe and America. While such instruction lacks some of the advantages which resident study gives, it has compensating advantages of its own. In correspondence instruction the teaching is personal and individual. Every student studies and recites the whole lesson, and comes in contact by correspondence with the teacher as an individual, not as a member of a large class. Correspondence-study employs the spare time of the student, gives him an interest besides his daily work. It can be done at home, and thereby brings into the home a new influence and charm. Correspondence work, moreover, throws the student upon his own resources and makes him self-reliant and self-determining.

Through this new department, the University is reaching out a helping hand to every citizen. It plans to add to the resources of life, of education and of industry; to give practical assistance to the farmer and the mechanic, to the professional man and the business man, to the employer and the employee, to teacher and to student, to farmer boy and farmer girl, to housekeeper and home-maker.

For all who desire to take correspondence-study the University of Nebraska, through its Extension department, is able to offer:

First: Correspondence courses of study in all subjects required for county and state certificates.

Second: Correspondence courses of study for University credit, as follows:

(a) Abraham Lincoln and His Times, by Professors Caldwell and Persinger.

(b) School Organization and Administration, by Dean Fordyce.

(c) Child Study, by Doctor Luckey.

(d) Philosophy of Education, by Doctor Wolfe.

(e) Industrial Geography, by Doctor Condra and Professor Bengtson.

(f) English Literature, by Professor Stuff.

(g) Nebraska History and Nebraska Problems in Legislation and Administration, by Mr. A. E. Sheldon.

(h) Insurance and (i) Accounting (Political Economy and Commerce) by Doctor Stephens.

Methods of Work and Instruction—Each lesson contains: (1) full directions for study, including reference to the text-books by chapter and page; (2) necessary suggestions for assistance; (3) questions to test the student's method of work as well as his understanding of the ground covered. After a careful study of the subject, the student writes his answers to the questions, with a statement of any difficulties that may have arisen

during his study, and mails them to the Director of University Extension, Station A, Lincoln Nebraska. The answer papers are carefully read and marked by the proper examiner, and are returned to the proper student by the Director. In like manner every lesson is carefully criticised by the instructor and returned, so that each student receives personal guidance and instruction throughout the course. The following specific directions must be followed by all correspondence students. The writing material should be the regular student's note-paper, regular teacher's examination paper, or single sheet legal cap. All papers must be written in ink. Answers shall be written on one side of the paper only. The name of the course, and the name and address of the student must be written at the top of the first page of each set of answer papers. Each page of answer papers must be properly numbered and fastened together in consecutive order before mailing to the Extension office. Answers must be in clear, concise terms. The answers must be numbered in the middle of the page to correspond to the questions. Credits will be deducted from carelessly written or illegible manuscripts. Correspondence students must use sufficient postage when mailing answer papers to the Extension office. On returning these papers to correspondence students, the Extension office will furnish the postage.

Requirements for College Credit—Three hours' preparation constitute the minimum requirement in Extension work in any and all subjects for one hour of college credit. No credit is given without the approval of the head of the department in which the Extension work is taken. The final examination is given under such rules and regulations as the head of the proper department may require. Only one-half of the unit hours required for graduation may be taken in correspondence study, but teachers or other students who cannot enter University classes except during vacations may acquire the remaining half of their credit units by attending summer sessions. No credit is recorded on the University books, however, until the student has accomplished satisfactorily an equivalent amount of work in residence.

Requirements for Entrance Credit—Ten hours of preparation each week for one semester or a period of sixteen weeks constitutes the minimum requirement in Extension work for a credit point for entrance to the University. No entrance credit is granted without the approval of the head of the proper department, the Inspector of Accredited High Schools, and the Director of University Extension.

Requirements for Certification Credit—Extension work pursued by those desiring to fit themselves for the teachers' examination for county certificates or the state professional certificate granted by the State Super-

intendent of Public Instruction is given under the supervision of the Director of University Extension, with the approval of the Inspector of Accredited Schools and the head of the proper department.

**Expenses and Fees**—The fees for correspondence study are placed upon the lowest operating basis possible for thorough and expeditious instruction. Those who will investigate the fees charged by other state universities, private schools and colleges for correspondence study will find that the University of Nebraska has undertaken to do University Extension work at a lower cost to its students in the Extension department, than has ever been done before in this country, and at the same time not lower the efficiency of the instruction given. The fact must be borne in mind that the correspondence student is usually engaged in a gainful occupation or profession, whereas the resident student temporarily suspends his earning power. The correspondence student may also be said to be turning his leisure time into economic values by this method. These and many other factors contribute toward establishing this as an inexpensive system of achievement and education. All fees are payable in advance except when the student finds it necessary to make pro-rata monthly payments. No extra charge is exacted where payments are made by installments. There will be no refund of any fee paid for Extension work unless the University is unable to give instruction in the course of study applied for by the student.

**Text-Books and Supplies**—All text-books and supplies necessary for the work desired may be bought from the Purchasing Agent, Station A, Lincoln, Nebraska, at cost. The student may purchase direct from the publisher, but it will expedite matters for those who take the work, as well as for the extension department, to deal direct with the Purchasing Agent of the University, and in nearly every case it will be cheaper for the student so to do, as the University can secure all books at wholesale price, while the student could only obtain retail prices.

**Time for Completing Work**—It is assumed that a semester's course of study in correspondence work may be completed by the average student in eighteen weeks on a minimum leisure for study of one hour and a half per day, six days in the week. It is, however, the student's privilege to pursue his studies as fast as he can or as slow as he must. If for reasonable cause the student desires more than one semester in which to complete the semester's work, this may be granted, but only under extraordinary circumstances will the student be given more than one year from the date of registration in which to complete a course of study. All students taking correspondence work are cautioned against trying to carry too much work at one time. When the student is over-burdened by regular daily duties

and correspondence study, University Extension work will become a punishment and a detriment rather than a pleasure and an inspiration as it may when a reasonable amount of work is undertaken.

**May Register Any Time**—One of the best features of University Extension work is that the student may register at any time and pursue the course of study alone, if necessary. As a rule better work can be done where there is a class of persons working together in an Extension center under a competent leader. But this will be impossible for a great number of those who desire to do Extension work. Therefore, they are given the opportunity of registering at any time and working alone.

**Examinations**—Where the student is taking correspondence-study to prepare for the examination for a teacher's certificate, the final examination will be given under the rules and regulations governing the county teacher's examination, and will be conducted by the county superintendent or by the city superintendent of normal training high schools. This will place the examination within easy reach of every teacher taking the work. Where the final examination is taken for University credit, it will be given under the authority of the University of Nebraska and will be conducted by county superintendents, city superintendents and high school principals throughout the state as representatives of the University. This makes all examinations especially convenient for all who may be taking correspondence-study.

## II. Instruction by Lectures

Instruction by lectures is one of the most important features of University Extension work. While the University of Nebraska has no fund for a state wide free lecture course, it is able to offer through its Extension department first-class musical and lecture talent at the most reasonable rates ever made to the people of this state. The extension Department was opened January 8, 1909. Since that date it has placed lecture and musical talent in over 300 villages, towns, and cities and has reached through this agency over 100,000 different citizens of the commonwealth with an aggregate audience of at least 300,000.

In New York City, courses of free lectures under the direction of the board of education have been conducted for over 20 years with exceptional success. In the twentieth year of this work, the audiences numbered in the aggregate over 1,500,000 and the work cost the city \$150,000. In the annual report of the department of education of the city of New York, the Supervisor of Lectures has the following to say of the influence of instruction by lectures on the adult population and general public: "It is too frequently forgotten that school education, as we understand it, is a comparatively recent invention. Among primitive nations almost all educa-

tion was for the adult. Race knowledge, traditions and history are preserved by the old rather than by the young, and our scheme for the continuation of the training of the 'grown ups' restores the true balance, for, as one writer says, 'Today we emphasize and support a school for children, but neglect those broader educational forces which sustain and elevate the natural and intellectual tone of the adult population.' The influence of the public lecture system on the educational system in general is now apparent. Since the course was established a new conception of the meaning of the schoolhouse has been created in the public mind. More and more is it recognized that the schoolhouse should become a social and civic center. During the past fifteen years the schoolhouse has been used for a variety of educational work to twice the extent that it was used before that time, while the inclusion in school buildings of auditoriums for lecture purposes indicates the fact that the school is no longer regarded merely as a place for the instruction of children, but also a place for the education of men and women. What finer sight can one observe instead of the boy 'creeping like snail unwillingly to school' than the grown men and grown women going at all seasons and in all weathers at much sacrifice, after the toil and heat and burden of the day, to get a little light or stimulus or refreshment of the best kind in the schoolhouse? To what nobler purpose can our schoolhouse be put than to hold within its influence all the children of the public, young and old? The noblest epitaph ever written was the epitaph upon the grave of Richard Green—'He died learning.' To increase the number of those who wish to learn as long as they live, to keep their minds open to the truth and receptive of the best ideas, that is, in a measure subserved by this work."

### III. Debating and Public Discussion

We cannot better emphasize the aims of this department and the value of Debating and Public Discussion than to quote from the report of Dean Louis E. Reber, Director of University Extension of the University of Wisconsin: "This department aims to arouse and stimulate among all classes of people an intelligent and active interest in important social and political questions. Believing that these is no form of popular education that tends more essentially to the making of good citizens than study and discussion of live issues, the department collects and maintains a loan library of books and periodicals relating to questions of the day, available upon application, issues bulletins on special topics, and keeps in touch by correspondence or personal interviews with civic leagues, town councils, library and school boards, farmers' and business men's clubs, high school and academy socie-

ties, and all similar organizations throughout the state. It is difficult to estimate the value of wide-spread, systematic training of this character in its influence upon the citizens of the state. It is conceded that no other study in the university or college does more to discipline the mind and promote an interest in questions vitally affecting humanity and the government than the work done in debating societies. It is fortunate that so useful and so broadening a pursuit can be carried on in the home of the student without interruption to his regular occupations. Without other outlay than time and thought the debater is led, first, to feel an interest in and desire to know about the great national and state issues of his day. This point gained, he is taught where and how to obtain material for his studies, a valuable asset in itself, if by this means he acquires the ability to inform himself when and upon what subjects he will. In studying great questions and formulating them for debate he learns to discriminate between fundamental underlying principles and non-essentials. He comes to recognize sound reasoning, not only in questions he debates, but in all his reading. In presenting arguments in public he is gaining lessons of self-control, of correct speech, and of concise thinking. That an immense influence may be exerted in countless directions by means of such training spread abroad throughout the state is evident."

The Nebraska High School Debating League was organized by Prof. M. M. Fogg, Department of Rhetoric, University of Nebraska, in January, 1908, at the earnest solicitation of several of the leading school men in the state for the purpose of promoting oral discussion in Nebraska secondary schools. Thirty-one schools participated in twenty League contests during the first year of its organization. During the last school year many schools participated in these League contests with profit and pleasure. There is great interest in the work for the ensuing year. The second number (1908-9) of the bulletin of the League containing accounts of the contests for the past school year and announcements for the school year, 1909-10, was published last May after the debate for the championship on High School Fete Day. Where any school belonging to the League desires material on the subjects to be debated during the ensuing year, it will be furnished at actual cost through the Extension department. This material will be selected by expert debaters working under the direction of Professor Fogg. This plan reduces the cost for debating material to the minimum for all schools belonging to the League.

#### IV. General Information and Welfare

The departments of history, political economy, sociology and the colleges of agriculture, law and medicine, will through the General Informa-

tion and Welfare Department of University Extension, render valuable assistance to thousands of persons throughout the state.

University Extension is for the benefit of all the people and must be comprehensive both with reference to including the work of all departments of the University proper, so far as practicable, and in covering the widest possible range of study of all questions that concern the people of the commonwealth. Its purpose is clearly set forth in Professor Caldwell's report to the Chancellor and Regents, made April 18, 1908: "To investigate all problems—artistic, literary, historical, social, industrial, moral, political, educational; problems of sanitation, city lighting, sewerage; banking, crises, money, divorces, etc.—in fine, all problems that may concern the citizens of Nebraska."

For further information relative to any question concerning University Extension work, write the Director of University Extension, Station A, Lincoln, Nebraska.



# The College of Engineering

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**OFFICERS OF INSTRUCTION AND ADMINISTRATION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

\*PHILIP JOHN HARRISON, A.B., Registrar and University Publisher.

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\*CHARLES RUSS RICHARDS, M. E., M. M. E., Dean of the College of Engineering and Head Professor of Mechanical Engineering and Practical Mechanics.

ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics and Dean of the College of Arts and Sciences.

OSCAR VAN PELT STOUT, B. C. E., C. E., Head Professor of Civil Engineering.

GEORGE RICHARD CHATBURN, B. C. E., A. M., C. E., Head Professor of Applied Mechanics and Machine Design.

BURTON EVANS MOORE, Ph. D., Professor of Physics.

CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics.

GEORGE HART MORSE, B. E. E., Professor of Electrical Engineering.

LEON WILSON CHASE, B. Sc., Professor of Agricultural Engineering.

CLARENCE AURELIUS SKINNER, Ph. D., Professor of Physics.

GEORGE EVERETT CONDRA, Ph. D., Professor of Geography and Economic Geology.

†BENTON DALES, Ph. D., Professor of Analytical Chemistry.

CAPTAIN HALSEY E. YATES, Inf. U. S. A., Professor of Military Science and Tactics.

CLARK EDMUND PERSINGER, A. M., Associate Professor of American History.

PHILIP K. SLAYMAKER, M. E., Associate Professor of Applied Mechanics and Machine Design.

LOUIS BRYANT TUCKERMAN, Jr., A. B., Assistant Professor of Physics.

CHARLES LEE DEAN, B. Sc., in M. E., Assistant Professor of Mechanical Engineering.

JUDD NOBLE BRIDGMAN, M. S., Assistant Professor of Civil Engineering.

NELS AUGUST BENGTSON, A. M., Assistant Professor of Geography and Economic Geology.

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\*Resigned

†In charge of the Department of Chemistry.

- LYNN A. SCIPIO, A. B., B. S., Assistant Professor of Mechanical Engineering.
- JESSE EPHRAIM RASMUSEN, B. Sc., in M. E., Assistant Professor of Applied Mechanics and Machine Design.
- LOCKWOOD J. TOWNE, Ph. B., B. Sc. in C. E., Assistant Professor of Civil Engineering.
- GEORGE BORROWMAN, A. M., Adjunct Professor of Chemistry.
- VERNON LEO HOLLISTER, B. S., Adjunct Professor of Electrical Engineering.
- ALBERT EGGLETON BUNTING, Adjunct Professor of Practical Mechanics.
- CLAUDE KEDZIE SHEDD, B. Sc. in Agr., Adjunct Professor of Agricultural Engineering.
- CLARK EDWIN MICKEY, B. Sc. in M. E., B. Sc. in C. E., Adjunct Professor of Applied Mechanics.
- WALTER SCOTT PAYNE, Instructor in Foundry and Machine Shops.
- \*CLARENCE A. PEARSON, Instructor in Forge and Foundry Work.
- JOHN GRENNAN, Instructor in Forge and Foundry Work.

#### Standing Committees of the College of Engineering

Course of Study and Advanced Standing—Professors Chatburn, Stout, Morse, The Dean.

Schedule of Classes—Professors Engberg, Hollister, Dean, Rasmussen, Bridgman, Tuckerman, Brenke, Mickey, Towne, Bunting, the Registrar.

Unclassed Students—Professors Stout, Morse, Chatburn, and the Registrar.

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\*Resigned.

## ORGANIZATION OF THE COLLEGE OF ENGINEERING

By an act of the Legislature of 1909, the Industrial College of the University was abolished and the engineering departments, formerly included in that college, were organized into a College of Engineering. It is the purpose of this college to give a broad, thorough training in mathematics and the physical sciences, with the application of these subjects to the fundamental and special branches of engineering science. While strongly emphasizing those subjects which are of fundamental importance to all branches of engineering, a considerable amount of specialization is permitted in the several groups of study offered by the college. In each department of instruction the work in the class room is made clear and real by extensive work in the laboratories.

## EQUIPMENT AND FACILITIES FOR INSTRUCTION

Three buildings on the University Campus are devoted primarily to the work in the College of Engineering: the Electrical Engineering Laboratories, erected in 1891; Mechanic Arts Hall, erected in 1898; and the Mechanical Engineering Laboratories, erected in 1909.

**Mechanic Arts Hall** is devoted to the work in civil engineering, electrical engineering, applied mechanics and machine design and mathematics. In addition to the lecture rooms, designing and instrument rooms and offices of these departments, the building contains the following important laboratories:

(1) **The Materials Laboratory**, devoted to the study of the strength and properties of the materials of construction, contains a 200,000 lb. and a 50,000 lb. testing machine, a torsion testing machine, two types of cement testing machines, a standard paving brick rattler, together with instruments and other apparatus for testing cement, stone, brick, and the metals.

(2) **The Electro-Chemical Laboratory** is provided with instruments and apparatus for the study of primary and secondary batteries, electric furnaces, etc.

(3) **The Engineering Library** contains a large and valuable collection of engineering and mathematical books, bound periodicals, transactions of engineering societies, with all the more important engineering journals. The completeness of this library makes it well adapted for study and research.

**Surveying.** For the work in surveying a large assortment of levels, transits, plane tables, rods, chains, etc., is provided.

**The Electrical Engineering Laboratories**, devoted exclusively to the work

in electrical engineering, contain (in addition to some lecture rooms and small research laboratories), the **Dynamo Laboratory**, which is well equipped with a variety of electrical generators, motors, transformers, lamps, instruments, etc., for experimental and research work. Among the important machines in this laboratory, the following may be mentioned: A 20 lamp Wood and a 25 lamp Thomson-Houston series arc generator; a  $3\frac{1}{2}$  k. w. U. S. shunt wound generator; two 15 k. w. Edison shunt wound generators; two  $1\frac{1}{2}$  k. w. Edison shunt wound generators; a 30 k. w. Westinghouse single phase, alternating current generator; a 15 k. w. General Electric three phase, alternating current generator; a 20 h. p. Lincoln variable speed motor; five different types of direct current motors; a 30 h. p. Crocker-Wheeler and a 10 h. p. Westinghouse three phase induction motor; two  $7\frac{1}{2}$  k. w. rotary converters of different types.

The **Mechanical Engineering Laboratories** building, recently completed at a cost of \$118,000, is the largest and one of the finest in the university group. The building contains the class rooms, offices, and the following important laboratories of the Department of Mechanical Engineering.:

(1) **The Power Laboratory**, for experimental and research work in steam engineering, gas power engineering, refrigeration and hydraulics. Among the more important items of equipment in this laboratory may be mentioned: A 150 h. p. cross-compound, condensing Corliss engine, with every conceivable attachment for research work; a 20 and a 25 h. p. simple automatic engine; a 5, 15 and 40 h. p. simple throttling engine; two 20 h. p. steam turbines of different types; a 65 h. p. cross-compound, two-stage air compressor with Meyer valve gear; a 50 h. p. Buckeye tandem producer gas engine attached to a specially designed Smith suction gas producer, arranged to burn any kind of fuel; an 18 h. p. Mietz & Weiss oil engine; a 14 h. p. Jacobson automatic gas and gasoline engine; an 8 h. p. Springfield gas and gasoline engine; a ten ton York refrigerating machine; complete with freezing tank, etc., for the study of refrigeration and the manufacture of ice; a large duplex, direct acting steam pump; two surface condensing outfits; two three-stage turbine pumps, each direct-connected to a 50 h. p. variable speed, three-phase induction motor; a complete equipment of New York and Westinghouse air brakes; a large steel pressure tank, concrete water tanks, weighing tanks, scales, etc., for experimental work in hydraulics and the testing of hydraulic motors; together with a large assortment of indicators, dynamometers, etc.

(2) **The Fuel Testing Laboratory**, containing a number of coal and gas calorimeters for determining the heating value of coal, gas and oil, and the necessary apparatus for testing lubricants and friction.

(3) **The Wood Working Laboratory**, containing forty speed lathes and

thirty-two work benches, with complete sets of tools, a pattern makers' lathe, combined cross-cut and rip buzz-saw, band saw, jig saw, planer, etc.

(4) **The Foundry Laboratory**, containing two cupola furnaces, two brass furnaces, core ovens, a large traveling crane and all other necessary apparatus for foundry work.

(5) **The Forging Laboratory**, containing thirty-five down draft forges, complete with tools, a large direct-connected motor driven blower and exhaust fan, a steam hammer, drill press, etc.

(6) **The Machine Tool Laboratory**, containing fifteen screw cutting lathes, two speed lathes, a large planer, two shapers, two milling machines, a large horizontal boring mill, a large universal grinding machine, a universal cutter grinder, several drill presses, including a large radial drill, together with a variety of other tools, machines, and benches for machine tool and bench work in the metals.

**The University Heating and Power Plant** houses the University power and heating boilers, stokers, and electrical generating plant of 400 k. w. capacity. While primarily a "commercial" plant, the apparatus may be used occasionally by engineering students for testing.

**The Agricultural Engineering Building**, located on the campus of the University Farm, contains laboratories for work in wood, for forge work and for experimental and research work with farm machinery, farm motors, etc.

### STUDENT ORGANIZATIONS

**The Engineering Society.** Membership in this society is open to all students in the college. It was organized to promote interest in engineering science and the work of the College of Engineering. In addition to papers presented by its members, there are, during the year, a number of addresses delivered before the society by professional engineers. The society issues an annual publication called the *Blue Print*, containing technical articles by students, alumni and members of the faculty.

**Student Branch of the American Institute of Electrical Engineers.** This society, authorized by the A. I. E. E. to develop an interest in electrical engineering in general and the work of the parent society in particular, is open primarily to students in the electrical engineering group, and to local electrical engineers.

**Student Branch of the American Society of Mechanical Engineers.** This society, authorized by the A. S. M. E., is open primarily to students in the mechanical engineering group.

**Literary and Social.** The Palladian and the Union are open University literary societies meeting weekly on Friday evenings in their rooms in the

Temple. Membership in a number of other literary and social clubs is open to students in the College of Engineering.

**Religious.** The Young Men's Christian Association, a non-sectarian and voluntary organization of Christian men, members of the University, organizes and conducts Bible study among the students, holds public meetings, helps students to find suitable rooming and boarding places, gives free aid to students in search of employment, and publishes an annual Students' Handbook containing information especially valuable to new students. Inquiries should be addressed to the Secretary of the Young Men's Christian Association, Station A, Lincoln, Nebraska.

#### ADMISSION TO THE COLLEGE OF ENGINEERING

**Entrance Credits** For admission to the Freshman class the candidate must present entrance "credits" equal to 30 "points."\* that is, a total of 150 recitation or "credit" hours. Conditional admission is permitted on a minimum of 24 "points," or 120 hours. A student admitted conditionally must remove the conditions at the earliest possible opportunity. The degree will not be granted until such conditions are removed. Persons unable to meet the entrance requirements may be admitted as special students, not candidates for the degree. Upon fulfilling the entrance requirements, such special students may register as regular students, and become candidates for the degree. All candidates for admission should forward their entrance credentials to the Registrar at least one month in advance of registration.

**Required Subjects (18 points).** Of the 30 points required for admission, eighteen must be presented from the following subjects, in the amount indicated:

Algebra (through logarithms), 1½ years, 5 hours a week.	3
Rhetoric and Literature, 2 years, 5 hours a week.	4
Geometry (plane and solid), 1½ years, 5 hours a week.	3
History (European), 1 year, 5 hours a week	2
Language (Foreign), 2 years, 5 hours a week	4
Physical science† (Physics), 1 year, 5 hours a week	2

**Optional Subjects (12 points).** In addition to these required subjects, for which no substitutes are accepted, applicants must present twelve points from the following optional subjects:

\*A "credit point" means the work of five recitations a week, of not less than forty minutes each, for at least eighteen weeks. In laboratory courses a "credit point" means three recitations a week plus two double periods of laboratory work under the supervision of an instructor. The time element with each subject is essential.

†See foot-note, page 230.

Agriculture.....	1
*Rhetoric and Literature, 1 year, 5 hours a week.....	2
*History (American or European), 2 years, 5 hours a week.....	4
Language (ancient or modern), 5 years, 5 hours a week.....	10
Natural Science (Botany, Zoology), 1 year, 5 hours a week each .....	2
†Physical Science (Chemistry), 1 year, 5 hours a week.....	2
Physical Geography, $\frac{1}{2}$ year, 5 hours a week.....	1
Trigonometry (plane), $\frac{1}{2}$ year, 5 hours a week.....	1
Other subjects taught in an approved manner in an accredited secondary school.....	6

**Adult Special Students.** Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the college as Adult Special Students under such conditions as shall be deemed wise in each individual case. Adult Special Students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special Student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special Student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special Students as well as to candidates for degrees. Request for admission as special students must receive the approval of the Committee on Unclassed Students; the action of this committee is final. Where possible, regular students must carry at least 12 hours of required work as scheduled under "Groups," or they become special, in which case their registration must be approved by the Committee on Unclassed Students.

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\*Two additional points are granted only to schools named by the Committee on Accredited Schools.

†Students who do not present two points in Chemistry among their optional subjects, will find it necessary to complete equivalent work in Chemistry at the expense of the free electives in the groups of this college.

**Advanced Standing.** Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-fourths of the credits required for graduation from the University. Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regularly organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless, in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

**Entrance from Accredited Schools.** The University maintains a list of "accredited" secondary schools whose *graduates* are admitted to the University without entrance examinations in duly certified subjects. The list of these accredited schools is given under "General Information Concerning the University," and also in the High School Manual published annually by the University and the State Department of Public Instruction.

**Registration.** Registration in the College of Engineering takes place on the first five days of each semester, from 9 a.m. Tuesday to 5 p.m. Saturday. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days.\* A like fee of \$3.00 is charged for re-registration when made

\*Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage.

necessary by the students' fault; any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student may make such a change without written permission to the Registrar from the dean of each college concerned. No student is allowed to drop any study for which he has been regularly registered, except by written permission from the dean of his college. No regular student is allowed to register for less than twelve (12) hours nor for more than eighteen (18) hours a semester. A student cannot attend a class for which he is not registered, and no credit is granted for studies pursued without registration.

#### REQUIREMENTS FOR GRADUATION

**Hours of Credit.** In all of the four-year groups in the College of Engineering, 125 hours of University credit\* are required for graduation. No student is recommended for graduation who is not within eighteen hours of this requirement at the beginning of his last semester.

**Required Subjects.** The subjects required for graduation from any one of the four-year engineering groups are given under the appropriate group heading on pages 237 to 245. Four hours of military science (courses A1, A2, AA1, AA2) are required of all men students. Only credibly attested physical disability, or conscientious scruples (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Unless excused or reprieved by the Chancellor, each undergraduate man must fulfill this requirement in his freshman and sophomore years. A failure to take military science during the required semester, unless reprieved in writing by the Commandant or the Chancellor, increases the military science requirement one semester for each failure. A reprieve does not abridge or otherwise modify a man's requirement in military science save to defer the period for discharging it; and no reprieved man leaving the University without having discharged this requirement can claim honorable dismissal. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Those excused for conscientious scruples are required to do work in physical education equivalent in amount. Thorough drill elsewhere than at the University

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\*A course receives one hour of credit for each one-hour recitation or lecture and two-hour preparation period it demands for each of the eighteen weeks or a semester.

may, as in case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

**Special Examinations.** The board of regents has made the following ruling: (1) No student has a right to demand a private examination. Such examinations are granted simply as favors, at the option of instructors. (2) No member of a class or section may, for any reason or under any pretext whatever, be privately examined at an earlier time than that set for his class or section. Any individual examination permitted must be held later. (3) To be examined at a time later than that set for his class or section, whatever the reason, a student must pay a special examination fee of \$1 a course. The student desiring an individual examination in any course, first obtains his instructor's consent thereto, and then pays the Secretary the proper fee, taking a receipt. This receipt, being shown the instructor, authorizes him to proceed with the examination.

**Student Rules and Regulations.** Students in the College of Engineering are under the same University regulations as are the students of the other colleges of the University in regard to absence, delinquency, dismissal, student activities, and rooming. The most important of these rules are summarized in the first section of the annual General Catalog of the University; a pamphlet containing the entire set of rules may be obtained from the Registrar.

### FEES AND EXPENSES

**Fees** must be paid, upon registration, to the Secretary. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the students' control. In the latter instance the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a class or from the University. The following fees are required of students in the College of Engineering:

Matriculation (on first registration only) . . . . .	\$5.00
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Being a statutory one, this fee cannot be refunded except when collected in error. It is also charged any student changing membership from one college to another.

Non-resident tuition (charged persons not residents of the State of Nebraska), each semester . . . . .	15.00
Incidental, each semester . . . . .	3.00
Diploma fee . . . . .	5.00

If degree is taken *in absentia*, \$10.00 additional.

Special Registration (late registration or re-registration) . . . . .	3.00
Special Examination . . . . .	1.00

#### LABORATORY FEES

Agricultural Engineering—Course 1, \$3; 2, \$4; 3, \$1; 4, \$2.

Applied Mechanics—Course 15, 16, 17, 18, 19, 20, \$3.

Chemistry—Courses A, B, 1, 2, 20, 21, 22, 34, \$5; courses 5, 15, 16, 23, 27, 41, \$2; courses D, 1 and 2 combined, 3, \$10; courses 7, 8, 23a, 39, 40, for each credit hour a semester, \$1; 14, \$8.

Civil Engineering—Courses 5, 6, 8, 30, \$3.

Electrical Engineering—Courses 6, 8, 9, \$5.

Mechanical Engineering—Courses 6a, 7, \$2; 2, 3, 4a, 15, \$4; 1, 5a, 16, 17, \$6.

Physics—Courses 1, 2, 3, 4, 6, 7, 8, 15, 16, \$4; courses 1a, 2a, 3a, 4a, \$1; courses 1b, 2b, 3b, 4b, \$3.

These fees do not cover careless waste, breakage, or injury to apparatus. In any such case the student is required, upon notice by the department concerned, to pay the amount of such waste or damage at the Secretary's office, and to present his receipt therefor to the department before his semestral credit is reported to the Registrar.

**Expenses.** The average cost of a year's attendance at the University (not including fees of any kind) is about \$300. Many students reduce this amount. Board and lodging may be had among families of the city. In September the Young Men's Christian Association and the Young Women's Christian Association make, under the direction of the Registrar, a canvas of the city and keep on file lists of rooms and boarding places. The Young Men's Christian Association maintains an employment bureau. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the University do not, however, undertake to find employment for students. A student is advised not to enter the University unless he can count upon resources for one semester—at least \$150.

#### LOAN FUNDS

Dr. John Alexander Low Waddell of Kansas City and Hon. William Gunn Whitmore, of Valley, Nebraska, have given the sum of \$1,000 each to the University to be used as a permanent loan fund for students in engineering. The plan and provisions for its use are not as yet announced.

Hon. John R. Webster, of Omaha has donated the sum of \$1,000 to the University to be used as a permanent loan fund for students in engineering and those in other colleges who may be in actual need of assistance. All

money paid in over amounts thus loaned shall be applied to increase the fund.

### GROUPS OF STUDIES AND DEGREES

The College of Engineering offers four-year groups of study in Agricultural, Civil, Electrical and Mechanical Engineering, leading to the degree of Bachelor of Science in Agricultural, Civil, Electrical or Mechanical Engineering, and a six-year combined Academic and Engineering group leading to the degree of Bachelor of Arts at the end of the fourth or fifth year and that of Bachelor of Science in one of the engineering groups at the end of the sixth year. In all of the four-year groups 125 "credit hours" are required for graduation.

**Agricultural Engineering.** The courses in Agricultural Engineering are arranged especially for those who expect to teach the subject and for men who contemplate the management of large farms or ranches which are handled on an extensive scale, and include a comprehensive discussion of farm machinery, farm motors, irrigation, drainage, sewage disposal, water systems, etc.

**Civil Engineering.** The courses in Civil Engineering deal with the subjects of railroad engineering, hydraulic engineering, irrigation, water supply, sewerage, structural design, masonry construction, etc. Mining Engineering.—A student taking the Civil Engineering course with the following substitutions and electives is able, after graduation, to finish a course in Mining Engineering with about one year's additional study at some mining school. The substitutions are: Chemistry 5, 6 for Mechanical Engineering 1, 2; Mining Geology 34 for Mechanical Engineering 18. The electives are: Chemistry 21, 22 and 23; Geology 1, 15, 16, and 17; Field Geology 21 and 31, and Economic Geology 25. Conservation.—The Civil Engineering group, with the following substitutions and electives is an appropriate preparation for work in connection with the conservation and development of the natural resources of a country. Substitutions: Field Geology 21 and Engineering Geology 25 for Applied Mechanics 3; Civil Engineering 18 and approved electives for Civil Engineering 16 and 15. Electives. To be approved by the Dean of the College of Engineering, on recommendation of the Professors of Civil Engineering and Economic Geology.

**Electrical Engineering.** The courses in Electrical Engineering include the theory and design of electrical machinery and the industrial applications of electricity to the transmission of power, lighting, street railways, and electro-metallurgy.

**Mechanical Engineering.** The courses in mechanical engineering deal with problems relating to the generation and transmission of power, and

the design, construction, operation and testing of machinery of all kinds.

**Six-Year Combined Academic-Engineering Course.** It has been found that all the requirements of both the academic and the engineering courses may be easily met in six years, the degree of Bachelor of Arts being taken at the end of the fourth or fifth year and that of Bachelor of Science in one of the Engineering courses at the end of the sixth.

#### GRADUATE WORK IN ENGINEERING

Graduate work in engineering may be taken by any student who has had preparation in mathematics and science equivalent to that required of undergraduates in engineering, but candidates for the degree of Civil Engineer, Mechanical Engineer or Electrical Engineer, must, in addition, possess technical preparation equivalent to that required in the undergraduate courses. Graduate work consists of special laboratory investigations of advanced engineering design or of the collection and reductions of existing data relating to some specific engineering topic. So far as possible such work is arranged to suit the needs of the individual student.

**ORDER OF COURSES IN FOUR-YEAR ENGINEERING GROUPS**

To avoid conflict in the time schedules of students and to secure the proper sequence in studies, it is necessary that the engineering courses be taken in the following prescribed order. In no case should this order be departed from without consultation with the head of the engineering department chiefly concerned (See also "Adult Special Students").

**FIRST YEAR OF ALL FOUR YEAR ENGINEERING GROUPS**

FIRST SEMESTER	Credit Hours
Mathematics (Algebra and Plane Trigonometry) 1 . . . . .	5
Physics (Mechanics of Solids and Fluids) 1 . . . . .	3
Rhetoric and English Composition 1 . . . . .	2
Applied Mechanics (Mechanical Drawing) 1 . . . . .	3
*Mechanical Engineering (Elementary Wood Work) 1 . . . . .	3
Military Drill A1 . . . . .	1
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SECOND SEMESTER	17
Mathematics (Analytical Geometry and Calculus) 2 . . . . .	5
Physics (Heat and Sound) 2 . . . . .	3
Rhetoric and English Composition 2 . . . . .	2
Applied Mechanics (Descriptive Geometry) 2 . . . . .	3
*Mechanical Engineering (Pattern-making) 2 . . . . .	2
*Mechanical Engineering (Foundry Work) 6a . . . . .	1
Military Drill, A2 . . . . .	1
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**AGRICULTURAL ENGINEERING GROUP**

SECOND YEAR—FIRST SEMESTER	
Mathematics (Analytical Geometry and Calculus) 3 . . . . .	5
Agronomy (Farm Management) 3 . . . . .	2
Physics (Electricity and Magnetism) 3 . . . . .	2
Applied Mechanics (Mechanism) 3a . . . . .	3
Agricultural Engineering (Farm Machinery) 1 . . . . .	2
Drill AA1 . . . . .	1
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\*In the Agricultural Engineering group, Agricultural Engineering 9 is taken in place of Mechanical Engineering 1, and Agricultural Engineering 10, in place of Mechanical Engineering 2 and 6a.

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	Credit Hours
SECOND YEAR—SECOND SEMESTER	
Mathematics (Calculus) 4.....	5
Horticulture (Ornamental Gardening) 6.....	2
Agricultural Engineering (Elementary Farm Motors) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Civil Engineering (Surveying) 5.....	2
Civil Engineering (Surveying Field Work) 5a.....	2
Drill AA2.....	1
	<hr/> 17

## THIRD YEAR—FIRST SEMESTER

Agricultural Engineering (Advanced Farm Machinery) 11.....	2
Geography (Engineering Geology) 25.....	2
Agronomy (Soils) 7.....	2
Argonony (Soil Physics) 9.....	2
Chemistry (Qualitative Analysis) 1.....	2
Mechanical Engineering (Steam Engineering) 10 .....	4
Electrical Engineering (Electric Power) 3.....	2
	<hr/> 16

## THIRD YEAR—SECOND SEMESTER

Agricultural Engineering (Advanced Farm Motors) 12 .....	2
Dairy Husbandry (Home Dairying) 2.....	4
Agricultural Engineering (Lighting and Sanitation) 14.....	2
Chemistry (Qualitative Analysis) 2.....	2
Mechanical Engineering (Laboratory) 16.....	3
Electrical Engineering (Laboratory) 8.....	2
	<hr/> 15

## FOURTH YEAR—FIRST SEMESTER

Applied Mechanics (Cement and Concrete Testing) 17. ....	2
Agricultural Engineering (Rural Architecture) 3.....	3
Civil Engineering (Hydraulics) 11.....	2
American History (Industrial History) 9 or Geography 1.....	2
Agricultural Engineering (Heating and Ventilating) 15.....	2
Electives.....	3

FOURTH YEAR—SECOND SEMESTER	Credit Hours
Agricultural Engineering (Farm Drainage and Rural Highways) 4 . . .	3
Civil Engineering (Irrigation Engineering) 12 . . . . .	3
American History (Industrial History) 10 or Geography 2 . . . . .	2
Agricultural Engineering (Laboratory) 16 . . . . .	2
Thesis or Electives . . . . .	<u>4</u>
	14

**CIVIL ENGINEERING GROUP**

## SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3 . . . . .	5
Physics (Electricity and Magnetism) 3 . . . . .	2
Chemistry (Qualitative Analysis) 1 . . . . .	2
Applied Mechanics (Mechanism) 3 . . . . .	3
Civil Engineering (Surveying) 5 . . . . .	2
Civil Engineering (Surveying Field Work) 5a . . . . .	2
Military Drill . . . . .	<u>1</u>
	17

## SECOND YEAR—SECOND SEMESTER

Mathematics (Calculus) 4 . . . . .	5
Physics (Light) 4 . . . . .	2
Chemistry (Qualitative Analysis) 2 . . . . .	2
Applied Mechanics (Theoretical and Applied) 14 . . . . .	3
Civil Engineering (Surveying) 6 . . . . .	2
Civil Engineering (Surveying Field Work) 6a . . . . .	2
Military Drill . . . . .	<u>1</u>
	17

## THIRD YEAR—FIRST SEMESTER

Electrical Engineering (Electric Power) 3 . . . . .	2
Applied Mechanics (Mechanics of Materials) 15 . . . . .	3
Applied Mechanics (Cement and Concrete Testing) 17 . . . . .	2
Civil Engineering (Hydraulics) 11 . . . . .	2
Chemistry (Technical and Metallurgical) 23 . . . . .	2
Electives . . . . .	<u>4</u>
	15

	Credit Hours
<b>THIRD YEAR—SECOND SEMESTER</b>	
Civil Engineering (Masonry Construction) 22 . . . . .	4
Civil Engineering (Framed Structures) 16. . . . .	4
Applied Mechanics (Materials of Construction) 18. . . . .	2
Electrical Engineering (Laboratory) 8. . . . .	2
Mechanical Engineering (Power Laboratory) 16, or . . . . .	3
Mechanical Engineering (Experimental Hydraulics) 18a. . . . .	(2)
	14 or 15

**FOURTH YEAR—FIRST SEMESTER**

Civil Engineering (Design of Framed Structures) 15. . . . .	3
Mechanical Engineering (Steam Engineering) 10. . . . .	4
Civil Engineering (Engineering Economics) 25. . . . .	2
Spanish 23 or approved electives. . . . .	5
14	

**FOURTH YEAR—SECOND SEMESTER**

Civil Engineering (Advanced Theory of Structures) 20, or. . . . .	3
Civil Engineering (Hydraulic Engineering) 24, or. . . . .	(3)
Civil Engineering (Railway Location) 10. . . . .	(3)
Civil Engineering (Engineering Economics) 26. . . . .	2
Spanish 24, or approved electives. . . . .	5
Electives. . . . .	4 or 3
	14 or 13

**ELECTRICAL ENGINEERING GROUP****SECOND YEAR—FIRST SEMESTER**

Mathematics (Analytical Geometry and Calculus) 3. . . . .	5
Physics (Electricity and Magnetism) 3. . . . .	2
Chemistry (Qualitative Analysis) 1. . . . .	2
Applied Mechanics (Mechanism) 3. . . . .	4
Mechanical Engineering (Forge Work) 3. . . . .	2
Mechanical Engineering (Foundry Work) 7. . . . .	1
Military Drill, AA1. . . . .	1
	17

**THE COLLEGE OF ENGINEERING**

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	Credit Hours
<b>SECOND YEAR—SECOND SEMESTER</b>	
Mathematics (Calculus) 4.....	5
Physics (Light) 4.....	2
Chemistry (Qualitative Analysis) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Mechanical Engineering (Machine Tool Work) 4a.....	2
Physics (Problems in Electricity) 5.....	2
Military Drill, AA2.....	1
<b>17</b>	
<b>THIRD YEAR—FIRST SEMESTER</b>	
Applied Mechanics (Machine Design) 5.....	3
Applied Mechanics (Mechanics of Materials) 15.....	3
Electrical Engineering (Dynamos) 1.....	2
Physics (Electrical Measurements) 6 .....	3
Civil Engineering (Surveying ) 5.....	2
Civil Engineering (Surveying Field Work) 5a.....	2
<b>15</b>	
<b>THIRD YEAR—SECOND SEMESTER</b>	
Applied Mechanics (Machine Design) 6.....	3
Electrical Engineering (Dynamos) 2.....	2
Chemistry (Technical) 23.....	2
Electrical Engineering (Electrical Laboratory) 8.....	2
Mechanical Engineering (Power Laboratory) 16.....	3
Mechanical Engineering (Steam Engineering) 10 .....	4
<b>15</b>	
<b>FOURTH YEAR—FIRST SEMESTER</b>	
Electrical Engineering (Laboratory) 9.....	2
Electrical Engineering (Electric Lighting) 17, or .....	2
Electrical Engineering (Telephone Engineering) 19 .....	(2)
Electrical Engineering (Alternating Currents) 5.....	4
Electives.....	5
<b>16</b>	
<b>FOURTH YEAR—SECOND SEMESTER</b>	
Electrical Engineering (Chemical Engineering) 18 .....	2
Electrical Engineering (Electric Railways) 20.....	2
Electrical Engineering (Technical Reports) 16.....	1
Thesis or Electives.....	4
Electives.....	4
	<b>13</b>

## THE UNIVERSITY OF NEBRASKA

## MECHANICAL ENGINEERING GROUP

## SECOND YEAR—FIRST SEMESTER

	Credit Hours
Mathematics (Analytical Geometry and Calculus) 3 . . . . .	5
Physics (Electricity and Magnetism) 3 . . . . .	2
Chemistry (Qualitative Analysis) 1 . . . . .	2
Applied Mechanics (Mechanism) 3 . . . . .	4
Mechanical Engineering (Forge Work) 3 . . . . .	2
Mechanical Engineering (Foundry Work) 7 . . . . .	1
Drill, AA1 . . . . .	1
	<hr/>
	17

## SECOND YEAR—SECOND SEMESTER

Mathematics (Calculus) 4 . . . . .	5
Physics (Light) 4 . . . . .	2
Chemistry (Qualitative Analysis) 2 . . . . .	2
Applied Mechanics (Theoretical and Applied) 14 . . . . .	3
Mechanical Engineering (Machine Tool Work) 4a . . . . .	2
Drill, AA2 . . . . .	1
	<hr/>
	15

## THIRD YEAR—FIRST SEMESTER

Applied Mechanics (Machine Design) 5 . . . . .	3
Applied Mechanics (Mechanics of Materials) 15 . . . . .	3
Civil Engineering (Theoretical Hydraulics) 11 . . . . .	2
Electrical Engineering (Electric Power) 3 . . . . .	2
Mechanical Engineering (Fuel Testing Laboratory) 15 . . . . .	2
Mechanical Engineering (Machine Construction) 5a . . . . .	3
	<hr/>

15

## THIRD YEAR—SECOND SEMESTER

Applied Mechanics (Machine Design) 6 . . . . .	3
Mechanical Engineering (Steam Engineering) 10 . . . . .	4
Mechanical Engineering (Power Laboratory) 16 . . . . .	3
Chemistry (Technical) 23 . . . . .	2
Electrical Engineering (Electric Power) 4 . . . . .	2

14

## THE COLLEGE OF ENGINEERING

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	Credit Hours
<b>FOURTH YEAR—FIRST SEMESTER</b>	
Mechanical Engineering (Steam Boilers) 11.....	2
Mechanical Engineering (Heating and Ventilation) 19 or approved elective.....	2
Mechanical Engineering (Hydraulic Motors) 31.....	3
Mechanical Engineering (Thermodynamics) 13.....	3
Mechanical Engineering (Power Laboratory) 17.....	3
Electives.....	<hr/> 2
<b>FOURTH YEAR—SECOND SEMESTER</b>	15
Mechanical Engineering (Gas Engineering) 22 or approved elective.....	3
Mechanical Engineering (Power Plant Design) 20 .....	2
Mechanical Engineering (Power Transmission) 24 .....	2
Electrical Engineering (Laboratory) 8 .....	2
Thesis or Electives.....	4
Electives.....	<hr/> 2

**ORDER OF COURSES IN SIX-YEAR COMBINED ACADEMIC-  
ENGINEERING COURSE**

\*In the Agricultural Engineering Group, Agricultural Engineering 9 and 10 are substituted for Mechanical Engineering 1, 2 and 6a.

		Semester
	THIRD YEAR	1st 2d
Applied Mechanics (Mechanism, Analytical Mechanics)	3, 14 . . . . .	4 3
History . . . . .		3 3
Biology . . . . .		3 3
Chemistry (Qualitative Analysis) 1, 2 . . . . .		2 2
Physics (Electricity, Magnetism and Light) 3, 4 . . . . .		2 2
Electives . . . . .		2 3
		— —
		16 16

## FOURTH YEAR

## AGRICULTURAL ENGINEERING.

<b>First Semester</b> —Agronomy 7, 9, 4 hours; Ag. Eng. 1, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; Eng. Geology 25, 2 hrs.; Civil Eng. 5, 5a, 4 hrs.,	15
<b>Second Semester</b> —Eng. Lit. 2 or Rhet. 6, 3 hrs.; Ag. Eng. 2, 2 hrs.; Mech. Eng. 10, 4 hrs.; Dairy Hus. 2, 4 hrs.; Elective, 2 hrs . . . . .	15

## CIVIL ENGINEERING.

<b>First Semester</b> —Chem. 23, 2 hrs.; Civil Eng. 5, 5a, 4 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 15, 3 hrs.; Mech. Eng. 3, 7, 3 hrs.,	15
<b>Second Semester</b> —Civil Eng. 6, 6a, 4 hrs.; Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 18, 2 hrs.; Mech. Eng. 4a, 10, 6 hrs . . . . .	15

## ELECTRICAL ENGINEERING.

<b>First Semester</b> —Chem. 23, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 5, 15, 6 hrs.; Mech. Eng. 3, 7, 3 hrs.; elective, 1 hr . . . . .	15
<b>Second Semester</b> —Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 6, 3 hrs.; Mech. Eng. 4a, 10, 6 hrs.; Physics 5, 2 hrs.; elective, 1 hr . . . . .	15

## MECHANICAL ENGINEERING.

<b>First Semester</b> —Chem. 23, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 5, 15, 6 hrs.; Mech. Eng. 3, 7, 3 hrs.; elective, 1 hr . . . . .	15
<b>Second Semester</b> —Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 6, 3 hrs.; Mech. Eng. 4a, 10, 6 hrs.; elective, 3 hrs . . . . .	15

## FIFTH YEAR

## AGRICULTURAL ENGINEERING.

<b>First Semester</b> —Ag. Eng. 3, 11, 5 hrs.; Agronomy 3, 2 hrs.; Civil Eng. 11, 2 hrs.; American History 9 or Geography 1, 2 hrs.; App. Mech. 17, 2 hrs.; Elect. Eng. 3, 2 hrs . . . . .	15
<b>Second Semester</b> —Ag. Eng. 12, 14, 4 hrs.; Mech. Eng. 16, 3 hrs.; Elect. Eng. 4, 8, 4 hrs.; American History 10 or Geography 2, 2 hrs.; Horticulture 6, 2 hrs . . . . .	15

**CIVIL ENGINEERING**

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 3, 2 hrs.; App. Mech. 17, 2 hrs.; Civil Eng. 11, 17, 5 hrs.; elective, 3 hrs.,	15
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 8, 2 hrs.; Civil Eng. 16, 22, 8 hrs.; Mech. Eng. 18a, 2 hrs.	15

**ELECTRICAL ENGINEERING.**

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 1, 2 hrs.; Physics 6, 3 hrs.; Civil Eng. 5, 5a, 4 hrs.; Elective, 3 hrs.	15
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 2, 8, 4 hrs.; Mech. Eng. 16, 3 hrs.; elective, 5 hrs.	15

**MECHANICAL ENGINEERING.**

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 3, 2 hrs. Civil Eng. 11, 2 hrs.; Mech. Eng. 5a, 11, 15, 7 hrs.; elective, 1 hr.,	15
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 4, 2 hrs.; Mech. Eng. 16, 22, 24, 8 hrs.; elective, 2 hrs.	15

**SIXTH YEAR****AGRICULTURAL ENGINEERING.**

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Ag. Eng. 15, 2 hrs.; App. Mech. 15, 3 hrs.; Mech. Eng. 31, 3 hrs.; Thesis or elective, 3 hrs.	14
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Ag. Eng. 4, 16, 5 hrs.; Civil Eng. 12, 3 hrs.; Thesis or elective, 3 hrs.	14

**CIVIL ENGINEERING.**

<b>First Semester</b> —Civil Eng. 15, 25, 5 hrs.; Mech. Eng. 16, 3 hrs.; Spanish 23, or elective, 5 hrs.; elective, 1 hr.	14
<b>Second Semester</b> —Civil Eng. 10, or Civil Eng. 20, or Civil Eng. 24, 3 hrs.; Civil Eng. 26, 2 hrs.; Spanish 24 or elective, 5 hrs.; Thesis or elective, 4 hrs.	14

**ELECTRICAL ENGINEERING.**

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 5, 17 or 19, 6 hrs.; elective, 5 hrs.	14
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 16, 18, 20, 5 hrs.; Thesis or elective 4 hrs.; elective, 2 hrs.	14

**MECHANICAL ENGINEERING.**

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Mech. Eng. 13, 17, 19, 31, 11 hrs.	14
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Mech. Eng. 20, 2 hrs.; Elect. Eng. 8, 2 hrs.; Thesis or elective, 4 hrs.; elective, 3 hrs	14
Total number of hours required for each six year group . . . . .	188

**COURSES OF INSTRUCTION****AGRICULTURAL ENGINEERING**

Professor Chase, Adjunct Professor Shedd, Mr. Baer, Mr. Sjogren

**1. Farm Machinery**—The practical study of all lines of agricultural implements, tillage, seeding, harvesting, threshing, and fertilizing machinery. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. First semester.

Adjunct Professor Shedd

**2. Farm Motors**—The practical study of farm motors, the horse, wind-mill, steam boilers, steam engines, traction engines, gasoline engines, electric motors. Prerequisite: Mathematics 1, Physics 1 and 2. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. Second semester.

Adjunct Professor Shedd

**3. Rural Architecture**—The laying out of farms, the study of houses, barns, granaries, sheds, fences, equipment, etc. Prerequisite: Mathematics 1. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. First semester.

Professor Chase

**4. Farm Drainage and Rural Highways**—A study of methods of drainage, estimates, laying out drainage systems, etc. A study of the highways of Nebraska, construction and reconstruction, haulage, and highway laws. The first half of the time of this course is given to drainage, and the second to highways. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. Second semester

Professor Chase, Mr. —————

**7. Research Work in Rural Architecture, Farm Drainage and Rural Highways**—The wide range of these subjects offers a great field for original investigation: drainage, water supplies, heating, fencing, building materials, sewage, road construction, etc. Prerequisite: Courses 3 and 4. From six to fifteen hours laboratory or reading. From two to five hours credit.

Professor Chase, Adjunct Professor Shedd

**8. Research Work in Farm Machinery, Farm Motors and Farm Equipment**—The large equipment of machinery in the department gives an excellent opportunity for testing both in the laboratory and in the field, standardizing, traction tests, calibration and economic tests of both farm machinery and farm motors. Prerequisite: Courses 1 and 2. From six to fifteen hours laboratory or reading. From two to five hours credit.

Professor Chase, Adjunct Professor Shedd

**9. Carpentry**—Practice with the care, use and adjustment of tools, exercises in Bench work, Farm Equipment and farm building construc-

tion. Lectures on the cutting, selecting, milling and durability of timbers. One hour attendance. Eight hours laboratory. Three hours credit.

Mr. Baer, Mr. —

**10. Forge Work**—Practice in forging, welding, tempering, pipe fitting, babbiting, chipping and repairing of Farm Machinery. Lectures on metallurgy of iron and steel, on wheelwright and shoeing. One hour lecture. Eight hours attendance. Three hours credit. Mr. Sjogren

**11. Advanced Farm Machinery**—Laboratory work in the testing of field machines under various conditions. The testing of grinders, shellers, twine etc. Prerequisite: course 1. Six hours laboratory. Two hours credit. First semester Adjunct Professor Shedd

**12. Advanced Farm Motors**—Complete tests of Farm Motors, both in the field and laboratory. Prerequisite: course 2. Mechanical Engineering 10, and in connection with Mechanical Engineering 16. Six hours laboratory. Two hours credit. Adjunct Professor Shedd

**14. Lighting and Sanitation of Farm Buildings**—Studies in lighting materials, lighting systems, water systems, sewage, sewage disposal, etc. Prerequisite: Physics 1 and 2. Chemistry 1 and 2. Two hours attendance. Two hours preparation. Two hours credit. Professor Chase

**15. Heating and Ventilating of Farm Buildings**—Studies in farm fuels, heating and ventilating systems including the complete design of heating and ventilating systems. Prerequisite: Physics 1 and 2, Chemistry 1 and 2, Applied Mechanics 1 or Agricultural Engineering 3. Two hours attendance. Four hours preparation. Two hours credit. Professor Chase

**16. Agricultural Engineering Laboratory**—Testing of fuels, heating systems, lighting systems, ventilating systems, pumping systems, etc. Prerequisite: courses 14 and 15. Six hours laboratory. Two hours credit. Professor Chase.

## APPLIED MECHANICS AND MACHINE DESIGN

Head Professor Chatburn, Associate Professor Slaymaker, Assistant Professor Rasmussen and Mr. Mickey

PRIMARILY FOR UNDERGRADUATES

**1. Mechanical Drawing**—Nine hours drawing a week in lettering, free-hand sketching, geometrical construction and projection; working drawings of machine parts. Three hours credit. First semester.

Assistant Professor Rasmussen

**2. Descriptive Geometry**—One hour attendance and six hours drawing a week, comprising, (1) text-book work on the solution of problems relat-

ing to geometrical magnitudes in space and their representations by drawings; (2) application of principles to working drawings. Three hours credit. Second semester. Assistant Professor Rasmussen

**3. Mechanism**—Two classroom periods and six hours drawing a week. Motions and forms of various mechanisms occurring in machines, manner of supporting and guiding the parts, independent of strength, and the design of gear teeth. Prerequisite: Courses 1 and 2. Four hours credit. First semester. Associate Professor Slaymaker

**3a. Mechanism**—Same as 3, but only three hours drawing. For civil engineering students. Three hours credit.

**20. Timber Physics**—An elementary course in applied mechanics with especial reference to the physical properties of timber. Illustrated in the laboratory by the testing and study of the strength of various timbers in tension, compression, cross-bending, shear, etc. For students in forestry. Prerequisite: Mathematics 1, Physics 1, and Botany 34. Two hours attendance. Three hours laboratory. Three hours credit. Second semester.

Head Professor Chatburn, Adjunct Professor Mickey

#### FOR UNDERGRADUATES AND GRADUATES

**5. Machine Design**—Elementary design of shafting and shaft couplings, pulleys and fly-wheel, power-screws, bearings and guides. Nine hours drawing a week. Prerequisite: Courses 1, 2, 3 and 14. Three hours credit, First semester. Associate Professor Slaymaker

**6. Machine Design**—Each student makes a number of complete designs, studies constructive details, makes calculations to determine strength of parts and estimates cost. Nine hours drawing a week. Prerequisite: Courses 1, 2, 3, and 5. Three hours credit. Second semester.

Associate Professor Slaymaker

**8. Steam-Engine Design**—Working from an assumed indicator card, each student designs the principal dimensions of a high-speed automatic cut-off engine and the details of assigned parts. Reports upon each particular design. Six hours drawing a week. Prerequisite: Courses 1, 2, 3, and 5. Two hours credit. Second semester.

Associate Professor Slaymaker

**13. Sterotomy**—Drawing and laboratory. Six hours drawing. Two hours credit. First and second semesters. Head Professor Chatburn

**14. Theoretical and Applied Mechanics**—Prerequisite: Mathematics 3. Principles of kinematics, statics and kinetics. Three hours attendance. Three hours credit. First and second semesters.

Head Professor Chatburn, Assistant Professor Rasmussen,

Adjunct Professor Mickey

**15. Mechanics of Materials**—Residence of materials, and mechanics of

beams, columns, and shafts; laboratory experiments. Prerequisite: Course 14. Two hours attendance. Three hours laboratory. Three hours credit. First and second semesters.

Head Professor Chatburn, Assistant Professor Rasmussen and  
Adjunct Professor Mickey

17. **Cement and Concrete Testing**—Classification, composition, manufacture, inspection, sampling and specifications. Practical testing of cement, mortars, concretes, and other materials of construction. Prerequisite: Course 14 One hour attendance Three hours laboratory. Two hours credit. First and second semesters.

Adjunct Professor Mickey

18. **Materials of Construction**—Manufacture and general properties. Mechanical properties of materials as revealed by actual tests. Comparison of tests reported by other laboratories. Continuation of tests begun in course 17. One hour attendance. Three hours laboratory. Two hours credit. Second semester.

Adjunct Professor Mickey

22. **Graphic Statics**—Elements of graphic statics applied to engineering construction. Prerequisite: Course 14. One hour attendance. Six hours drawing. Three hours credit. Second semester.

Head Professor Chatburn

23. **Applied Descriptive Geometry**—Advanced course in mechanical drawing. Practical applications of the principles of descriptive geometry. Shades, shadows and perspective. Prerequisite: Courses 1 and 2. Three or six hours drawing a week. One or two hours credit.

Assistant Professor Rasmussen

24. **Free Hand Drawing**—Designed for engineering students. Three hours drawing. One hour credit. First and second semesters.

Adjunct Professor Hayden

26. **Advanced Mechanics**—Open to students who have completed course 14 or Mathematics 4. Three hours attendance. Three hours credit. Second semester.

Head Professor Chatburn

A. M.—**Architectural Drawing**—This is not to be confused with a course in architecture but will consist of instruction in the method of procedure in drawing plans for houses and their corresponding elevations. The student will work up an original design for a dwelling house, making all the floor plans and elevations, including the arrangement of stairs, water pipes, heating plant, etc. Such details of construction will be studied as will be necessary in making the design. Prerequisite: A. M. 1 and 2. Six hours drawing with two hours credit.

Associate Professor Slaymaker

## CIVIL ENGINEERING

Head Professor Stout, Head Professor Chatburn, Assistant Professors Bridgman, and Towne

### FOR UNDERGRADUATES AND GRADUATES

**5. Surveying**—Prerequisite: Trigonometry. To be accompanied by course 5a. Two hours attendance. Two hours credit. First semester.

Assistant Professor Bridgman

**5a. Surveying Field Work**—To accompany course 5. Six hours field. Two hours credit. First semester. Assistant Professor Bridgman

**6. Surveying**—5 continued. Second semester.

**6a. Surveying Field Work**—5a continued. Second semester.

**8. Railway Surveying**—Prerequisite: Courses 5 and 5a. Field and office methods employed in surveys for locating and constructing railroads. One hour attendance. Six hours field. Three hours credit Second semester. Assistant Professor Bridgman

**9. Railway Construction**—Prerequisite: Course 8 or equivalent experience in actual work. Principles and practice. Roadbed, tunnels, minor structures. Contractors' organization and equipment. Cost data and analysis; estimates. Two hours attendance. Two hours credit. First semester. Assistant Professor Bridgman

**10. Economic Theory of Railway Location**—Open to fourth-year students. Scientific balancing of cost, receipts, and operating expenses. Three hours attendance. Three hours credit. Second semester.

Assistant Professor Bridgman

**11. Hydraulics**—Prerequisite: Calculus. Two hours attendance. Two hours credit. Both semesters. Head Professor Stout

**12. Irrigation Engineering**—Prerequisite: Course 11. Grade, cross-section and capacity of canals; surveys; designs of structures; source of water supply; analysis of hydrographic data; return and seepage waters; irrigation by pumping; organization; legal and economic principles. Three hours attendance. Three hours credit. Second semester.

Head Professor Stout

**13. Water Supply of Cities**—Prerequisite: Course 11. Three hours attendance. Three hours credit. First semester.

Assistant Professor Towne

**14. Cleaning and Sewerage of Cities**—Prerequisite: Course 11. Three hours attendance. Three hours credit. Second semester.

Assistant Professor Towne

**15. Design of Framed Structures**—Prerequisite: Course 16. Three hours attendance. Three hours credit. First semester.

Assistant Professor Towne

16. **Stress in Framed Structures**—Prerequisite: Applied Mechanics 15. Four hours attendance. Four hours credit. Second semester.

Assistant Professor Towne

17. **Reinforced Concrete**—Prerequisite: Applied Mechanics 15. Theory and practice in design and construction of concrete reinforced by steel. Three hours attendance. Three hours credit. First semester.

Assistant Professor Towne

18. **Structural Design**—Prerequisite: Applied Mechanics 15. Adapted to the needs of students in Mechanical and Electrical Engineering. Two hours attendance. Two hours credit. Second semester.

Assistant Professor Towne

20. **Advanced Theory of Structures**—Prerequisite: Course 15. Arches, cantilevers, continuous girders, statically indeterminate stresses. Three hours attendance. Three hours credit. Second semester.

Assistant Professor Towne

21. **Roads, Streets and Pavements**—Lectures, assigned readings, and reports. Two hours attendance. Two hours credit. First semester.

Head Professor Chatburn

22. **Masonry Construction**—Prerequisite: Applied Mechanics 14. Four hours attendance. Four hours credit. Second semester.

Head Professor Stout

24. **Hydraulic Engineering**—Prerequisite: Course 11. Hydraulic development for purposes of drainage, power, and transportation. Flood protection. Collection and analysis of hydrographic data and the principles involved in the design of reservoirs, canals, levees, and structures. Three hours attendance. Three hours credit. Second semester.

Head Professor Stout

25. **Engineering Economics**—Conducted on the seminar plan. Two hours attendance. Two hours credit. First semester.

Head Professor Stout, Assistant Professor Bridgman,

Assistant Professor Towne

26. **Engineering Economics**—25 continued. Second semester.

30. **Exploratory Surveying**—Designed for students of forestry. Prerequisite: Course 5. One hour attendance. Six hours field work. Three hours credit. Second semester.

Assistant Professor Bridgman

## ELECTRICAL ENGINEERING

Professor Morse, Adjunct Professor Hollister

PRIMARILY FOR UNDERGRADUATES

1. **Dynamos**—Theory and practice of direct current machinery. Two hours attendance. Two hours credit. First semester. Professor Morse

2. **DYNAMOS**—1 continued. Second semester.
3. **Electric Power**—Elementary principles. Industrial applications. For students in civil and mechanical engineering. Two hours attendance. Two hours credit. First and second semesters.  
Adjunct Professor Hollister
4. **Electric Power**—3 continued. Second semester.
5. **Alternating Currents**—Theory and practice of alternating current machinery. Prerequisite: Courses 1 and 2. Four hours attendance. Four hours credit. First semester.  
Professor Morse
6. **Alternating Currents**—5 continued. Two hours classroom attendance. Six hours laboratory. Four hours credit. Second semester.  
Professor Morse, Adjunct Professor Hollister
8. **Electrical Laboratory**—Practice in operating and testing dynamos, motors, transformers, and subsidiary apparatus. Six hours laboratory. Two hours credit. First and second semesters.  
Adjunct Professor Hollister
9. **Electrical Laboratory**—8 continued. Six hours laboratory. Two hours credit. First semester.  
Adjunct Professor Hollister
10. **Thesis**—Graduating thesis on approved subject demanding knowledge of engineering. Four hours credit.  
Professor Morse, Adjunct Professor Hollister
16. **Technical Reports**—One hour attendance. One hour credit. Second semester.  
Professor Morse
18. **Electro-Chemical Engineering**—Batteries, electric furnaces, production of aluminum and other metals, refining and deposition of metals and electrolysis. Two hours attendance. Two hours credit. Second semester.  
Professor Morse
20. **Electric Railways**—Construction and operation. Following courses 1 and 2. Two hours attendance. Two hours credit. Second semester.  
Professor Morse
17. **Electric Lighting**—Distributing systems, lamps, electric and other, photometry, effective lighting, rules for wiring, lighting stations. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester.  
Professor Morse
19. **Telephone Engineering**—Line construction, telegraph and telephone instruments, switchboards and circuits. Two hours attendance. Two hours credit. First semester.  
Adjunct Professor Hollister

## **MECHANICAL ENGINEERING**

Head Professor Richards, Assistant Professor Dean, Assistant Professor Scipio, Mr. Payne, Adjunct Professor Bunting, Mr. Grennan

**PRIMARILY FOR UNDERGRADUATES.**

1. **Wood Work**—Bench work in wood and wood-turning; lectures on wood-working tools and machinery and the properties of timber. One hour attendance. Eight hours laboratory work. Three hours credit. First semester. Adjunct Professor Bunting

- 2. Pattern-Making**—Construction of patterns and core-boxes; lectures on pattern-making, foundry work and the metallurgy of cast iron. Prerequisite: Course 1. One hour attendance. Five hours laboratory work. Two hours credit. Second semester. Adjunct Professor Bunting

- 3. Iron and Steel Forging**—Practice in forging, welding and tempering; lectures on forging tools and machinery and the metallurgy of iron and steel. One hour attendance. Five hours laboratory work. Two hours credit. First semester. Mr. Grennan

- 4a. Machine Work in Metals**—Exercises in the use of the engine lathe, planer, shaper, milling machine and the art of cutting metals; lectures on machine tools. One hour attendance. Five hours laboratory work. Two hours credit. Both semesters. Mr. Payne

- 5a. Machine Construction**—4a continued. One hour attendance. Eight hours laboratory work. Three hours credit. Both semesters.

- 6a. Foundry Work**—Moulding and casting in iron and brass. Must be taken with course 2. Three hours laboratory work. One hour credit. Second semester. Mr. Grennan

- 7. Foundry Work—6a** continued. Three hours laboratory work.  
One hour credit. First semester. Mr. Grennan

## FOR GRADUATES AND UNDERGRADUATES

- 10. Steam Engineering**—Forms and mechanism of steam machinery. Economy of operation and adaptability to a given service; elementary theory of heat engines. Differential and integral calculus and applied mechanics required. Four hours attendance. Four hours credit. First and second semesters.

Head Professor Richards, Assistant Professor Scipio

- 11. Steam Boilers**—Design and construction of steam boilers, furnaces, settings; their safety and economy of operation. Prerequisite: Course 10. Two hours attendance, occasional drawing. Two hours credit. First semester.

**13. Thermodynamics**—Advanced study of the thermodynamics of gases and vapors, the applications of the science to heat engines, injectors, refrigerating machinery, steam turbines, etc. Prerequisite: Course 10. Three hours attendance. Three hours credit. First semester.

Head Professor Richards

**15. Mechanical Engineering Laboratory**—Proximate analyses of coal; determination of heating value of coal, gas, and oil; the testing of lubricants and friction. Six hours laboratory. Two hours credit. First semester.

Assistant Professor Scipio

**16. Mechanical Engineering Laboratory**—Calibration of instruments, indicator practice, valve setting, efficiency tests of engines and boilers, injectors, pumps, gas engines. The measurement of power. Nine hours laboratory. Three hours credit. Second semester.

Assistant Professor Dean, Assistant Professor Scipio

**17. Mechanical Engineering Laboratory**—Complete tests of simple and compound Corliss engines, air compressors, gas engines, steam pumps, and refrigerating machinery. Prerequisite: Course 16. One hour attendance. Eight hours laboratory work. Three hours credit. First semester.

Assistant Professor Dean

**18a. Experimental Hydraulics**—Experiments on the flow of water through orifices and nozzles and over weirs; the testing of hydraulic motors and pumps. Prerequisite: Civil Engineering 11. Six hours laboratory work. Two hours credit. Second semester.

Assistant Professor Dean

**19. Heating and Ventilation**—Theory and design of the various systems for heating and ventilating buildings, including hot air, hot water, steam and the plenum and vacuum systems, and central station heating. Prerequisite: Course 10. Two hours attendance. Two hours credit. First semester.

Assistant Professor Scipio

**20. Steam Power Plant Design**—The design of a complete steam power plant and the formulation of specifications therefor. Prerequisites: Courses 10 and 11. Occasional lectures. Six hours drawing. Two hours credit.

Assistant Professor Scipio

**22. Gas Power Engineering**—The theory and design of gas, gasoline and oil engines; gas producer practice; the combustion of gaseous fuels. Prerequisite: Course 10. Three hours attendance. Three hours practice. Second semester.

Head Professor Richards

**24. Power Transmission**—Transmission of power by shafting, belts, ropes, water, compressed air, gas. Two hours attendance. Two hours credit. First semester.

Head Professor Richards

**31. Hydraulic Motors and Pumping Machinery**—Theory of water-wheels, turbines, pressure engines and pumps. Three hours attendance. Three hours credit. First semester.

Head Professor Richards

**PRIMARILY FOR GRADUATES**

**27. Advanced Laboratory Investigations**—Special investigations of problems relating to steam engines and boilers, gas engines, etc. Nine or twelve hours laboratory. Three or four hours credit. First semester.

Head Professor Richards, Assistant Professor Dean

**28. Advanced Laboratory Investigations**—27 continued. Nine or twelve hours laboratory. Three or four hours credit. Second semester.

Head Professor Richards, Assistant Professor Dean

**AMERICAN HISTORY**

**American History 9. Industrial History of the United States**—A non-technical study of the rise and development of the leading American industries, especially since 1783. Two hours attendance. Two hours credit. First semester.

Associate Professor Persinger

**American History 10. Public Lands Policy and Laws of the United States since 1789**—Introduced by brief study of the "westward movement"; mainly a tracing of national laws and policy in regard to agricultural, mineral, grazing, forest, irrigated and other public lands; some attention paid to development of state policies in regard to public lands. Intended primarily for those who will have practical use for information derived from the course. Two hours attendance. Two hours credit. Second semester.

Associate Professor Persinger

**CHEMISTRY**

Professor Dales, Adjunct Professor Borrowman, Mr. Wilson, Miss Graham  
**Analytical Chemistry**

**1. Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 credit points. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Adjunct Professor Borrowman

**2. Qualitative Analysis**—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Adjunct Professor Borrowman

**1 and 2 (combined), Qualitative Analysis**—Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Professor Dales

**Technical and Metallurgical Chemistry**

**23. Engineering Chemistry**—The chemistry of the materials of engineering iron and steel, Portland cement, fuels, gases, boiler water, etc., with a

laboratory course in the analysis of the same. Required of all engineers. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First and second semesters.

Adjunct Professor Borrowman

**23a. Engineering Chemistry**—A laboratory course for engineers and others who wish to do more than is required in course 23. Prerequisite: Courses 1, 2 and 23. Hours credit dependent upon amount of work done. First and second semester.

Adjunct Professor Borrowman

### ENGINEERING LAW

**Engineering Law**—A course in business law with special reference to the needs of engineers. Essential elements of a contract, who may contract. Corporate bodies. Bids and bidders. Employment of engineer or architect. Property rights in designs and inventions. Liability of engineer or architect. Engineer or architect as an expert witness. Two hours attendance. Two hours credit. Second semester.

Professor Conant

### GEOGRAPHY AND ECONOMIC GEOLOGY

Professor Condra, Assistant Professor Bengtson

**1. Physical Geography of the Land**—An introductory lecture and laboratory course upon practical physiography. Some of the topics discussed are: The common minerals, rocks, structures and relief features; weathering of minerals and rocks; plains and plateaus; land formed—produced by the erosion of plains, plateaus and mountain folds; flood plains, deltas, and alluvial fans; erosion and deposits of glaciers; volcanoes and earthquakes. An attempt is made to describe the leading physiographic processes, land and water forms. The lectures are fully illustrated by lantern, maps, models and specimens. Students carrying this course are advised to take also one or both of the related courses, 7 and 9. Two hours attendance. Four hours laboratory, library and preparations. Two hours credit. First semester.

Professor Condra, Assistant Professor Bengtson

**2. Geography of North America**—A summary study of the political divisions, relief, drainage slopes, coast lines, climate, evolution and structure of the continent, and a fuller treatment of each of the seventeen topographic regions; the structure, physiographic history, topography and drainage, resources and industries, and geographic control of the settlement and development of each region. Attention is given to the literature of the subject. The course is suited to all students who wish a knowledge of the geography of our country. The Great Plains Region is emphasized. Lectures are illustrated. The correlating course is number 8. Two hours attendance. Four hours library, laboratory and preparations Two hours credit. Second semester.

Professor Condra, Assistant Professor Bengtson

**25. Engineering Geology**—The properties, origin, occurrence, and use of certain rock-forming minerals; types of structure; periods and systems; the geology of mineral fuels, water supplies, sand and gravel, building stone cement materials, road materials, and clay. The various materials are studied in the laboratory. Examination and reports on quarries, clay pits and sand deposits; lectures illustrated by lantern, specimens and maps. Two hours attendance. Four hours library, laboratory and field. First semester. Two hours credit.

Professor Condra, Assistant Professor Bengtson

## MATHEMATICS

Head Professor Davis, Professor Engberg, other members of departmental staff

### COURSES

**A. Solid Geometry**—Prerequisite: Five points high school credit. Five hours attendance. Five hours credit. First and second semesters.

**1. Algebra and Plane Trigonometry**—Prerequisite: Six points high school credit. Five hours attendance. Five hours credit. First and second semesters.

**2. Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

**3. Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

**4. Calculus**—3 continued. Five hours attendance. Five hours credit. First and second semesters.

## PHYSICS

Professor Skinner, Professor Moore, Professor Almy, Assistant Professor Tuckerman, Mr. Spencer, Mr. \_\_\_\_\_

### General and Experimental Physics

**1. General and Experimental Physics**—Mechanics of solids and fluids. Two hours lecture with illustrative experiments. Solution of problems. Four hours laboratory. Three hours credit. First semester.

**2. General and Experimental Physics**—Heat and sound. As in 1 Second semester.

**3. General and Experimental Physics**—Electricity. Two hours lecture

with illustrative experiments. Four hours laboratory. Two or three hours credit. First semester.

4. **General and Experimental Physics**—Light. As in 3. Second semester.
  5. **Problems in Electricity**—(Prerequisite: Course 3.) Two hours attendance. Two hours credit. Second semester.
  6. **Electrical Measurements**—(Prerequisite: Courses 3 and 5.) Eight hours laboratory. Three hours credit. First semester.
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**NOTE**—For description of courses in: Biology (Botany, Zoology), Classics or Modern Language, English Literature, Military Science and Tactics, Philosophy, Physical Education, Political Economy, Rhetoric, and Spanish, see "Courses of Instruction," in the College of Arts and Sciences; for Agronomy, Dairy Husbandry, and Horticulture, see the College of Agriculture.

# The College of Agriculture

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.  
JAMES STUART DALES, M. Ph., Secretary of the University.

\*PHILIP JOHN HARRISON, A. B., Registrar and University Publisher.

EDGAR ALBERT BURNETT, B. Sc., Dean of the College of Agriculture  
and Director of Experiment Stations. Agricultural Hall 203.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany  
and Head Dean of the University.

LAWRENCE BRUNER, B. Sc., Head Professor of Entomology and  
Entomologist of the Experiment Station.

†ALBERT EUGENE DAVISSON, A. B., Head Professor of Agricultural  
Education.

HOWARD REMUS SMITH, B. Sc., Head Professor of Animal Husbandry.  
Agricultural Hall 103.

\*ARCHIBALD LOUIS HAECKER, B. Sc. A., Head Professor of Dairy  
Husbandry.

FREDERICK JAMES ALWAY, Ph. D., Head Professor of Agricultural  
Chemistry. Experiment Station Hall.

ROLLINS ADAMS EMERSON, A. M., Professor of Horticulture Horti-  
cultural Hall.

ROSA BOUTON, A. M., Professor of Home Economics Home Econom-  
ics Hall.

†FRANK J. PHILLIPS, M. S. F., Professor of Forestry.

EDWIN MEAD WILCOX, Ph. D., Professor of Agricultural Botany  
and Agricultural Botanist of the Experiment Station. Agricultural  
Hall 307.

LEON WILSON CHASE, B. Sc. in M. E., Professor of Agricultural  
Engineering. Machinery Hall.

EDWARD GERRARD MONTGOMERY, A. M., Professor of Experimen-  
tal Agronomy. Experiment Station Hall.

CAPT. HALSEY E. YATES, Inf., U. S. A., Commandant of Cadets  
and Professor of Military Science. Grant Memorial Hall.

WILLIAM PATTON SNYDER, A. B., M. S., Superintendent of North  
Platte Experimental Substation.

CHARLES WILLIAM PUGSLEY, B. Sc., Professor of Agromony and  
Farm Management. Experiment Station Hall.

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\*Resigned.

†Deceased.

- GEORGE EVERET CONDRA, Ph. D., Professor of Geography and Economic Geology. University Hall 7.
- JAMES HARRISON GAIN, M. D. C., Professor of Animal Pathology. Veterinary Hall.
- \*VAL KEYSER, B. Sc., Superintendent of Farmers' Institutes. Agricultural Hall 205.
- ALICE BAIRD ENSIGN, A. B., Adviser to Women.
- FREDERICK MAURICE HUNTER, A. B., Principal of the School of Agriculture and Professor of Secondary Agricultural Education. Agricultural Hall 207.
- OLENUS LEE SPONSLER, A. B., Associate Professor of Forestry. In charge of the Department of Forestry. Nebraska Hall 105.
- HARRIET FOLGER, B. Sc., Associate Professor in Home Economics. Home Economics Hall.
- MYRON HARMON SWENK, A. M., Associate Professor of Entomology and Assistant State Entomologist. Experiment Station Hall.
- JULIA EMMELINE LOUGHRIDGE, A. B., Assistant Principal of the School of Agriculture and Adjunct Professor of Mathematics. Agricultural Hall 204.
- LAZELLE BRANTLEY STURDEVANT, A. M., M. D., Assistant Professor of Animal Pathology. Veterinary Hall.
- NELS AUGUST BENGTSON, A. M., Assistant Professor of Geography and Economic Geology, U7.
- ELLIS RAIL, B. Sc. A., Assistant Professor of Animal Husbandry. Agricultural Hall 104.
- VERNON VILAS WESTGATE, A. M., Assistant Professor of Horticulture. Horticultural Hall.
- PERCY BONSFIELD BARKER, A. B., Assistant Professor of Agronomy (Soils). Experiment Station Hall.
- ROBERT FRANCIS HOWARD, B. S. in Agr., Assistant Professor of Horticulture. Horticultural Hall.
- ERWIN HOPT, B. Sc., Assistant Professor in Agronomy (Crops). Experiment Station Hall.
- ROBERT SAMUEL TRUMBULL, A. M., Adjunct Professor of Agricultural Chemistry. Experiment Station Hall.
- WILLIAM LUTHER FRENCH, B. Sc., Adjunct Professor of Dairy Husbandry. Dairy Hall.
- \*G. HERBERT COONS, A. B., Adjunct Professor of Agricultural Botany.
- FLORA BULLOCK, A. M., Adjunct Professor in English. Agricultural Hall 109.

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\*Resigned.

CLAUDE KEDZIE SHEDD, B. Sc., Adjunct Professor of Agricultural Engineering. Machinery Hall.

GEORGE KONRAD KARL LINK, S. B., Adjunct Professor of Agricultural Botany.

CHARLES BOSS LEE, B. Sc., Adjunct Professor of Animal Husbandry.

WILLIAM JACOB DUPPERT, M. S. F., Adjunct Professor of Forestry. Nebrask Hall 303.

ALVA ALDUS BAER, Instructor in Wood Work. Machinery Hall.

\*GRACE GOLDENA DENNY, A. B., Instructor in Home Economics.

ELLA BRADFORD HARPER, A. B., Instructor in Home Economics. Home Economics Hall.

ORPHA NESBITT, B. Sc., Instructor in Home Economics. Home Economics Hall.

OSCAR WARNER SJOGREN, Instructor in Forge Work.

‡ BESSIE EVELYN MERRILL, A. B., Instructor in Home Economics.

HELEN L. DAVIS. Instructor in Home Economics

MINNIE M. NEWMAN, Assistant Instructor in English.

MABEL HEDGES, A. B., Assistant in Home Economics Home Economics Hall.

GLAIDETH DENNY, A. B., Assistant in German and History. Agricultural Hall 204.

HOWARD JOHN GRAMLICH, Assistant in Agronomy (Soils.)

EDNA CLARA NOBLE, B. L., Library Assistant. Agricultural Hall.

OTTO LIEBERS, Assistant in Dairy Husbandry.

RAY HERBERT CAMP, Assistant in Dairy Husbandry.

BERT BARBER, Assistant in Dairy Husbandry.

WILL FORBES, Assistant in Dairy Husbandry.

THOMAS MOSELEY, Assistant in Dairy Husbandry.

SAMUEL McKELVIE, Lecturer in Swine Judging. Agricultural Hall 103.

MRS. VADA CLEGG VENNUM, Assistant Registrar, School of Agriculture. Agricultural Hall 207.

#### Standing Committees of the Faculty

Course of Study—Professor Davisson (chairman), Professors Bouton, Bruner, Chase, Pugsley, Smith, Wilcox, and Mrs. Vennum (secretary.)

Farmers' Institutes—The Dean (chairman), Professors Smith, Pugsley, Keyser (secretary).

Schedule of Classes—Professor Chase (chairman), Professors Pugsley, Wilcox, the Registrar.

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\*Resigned.

†Appointed for 1910-1911 only.

**PURPOSE OF THE COLLEGE OF AGRICULTURE**

The College of Agriculture was established by an act of the legislature of 1909, reorganizing the colleges within the University. The purpose of this college is (1) to provide thorough instruction in the technical agricultural sciences and (2) to aid in the promotion of agriculture through its secondary School of Agriculture, its Experiment Stations, and its Farmers' Institute work.

**GROUPS OF STUDY**

**The Agricultural Group** meets the needs of those students who desire to make practical application of their education in the management of land or who wish to prepare themselves for the pursuit of scientific investigation along some line in agriculture, such as agricultural botany, agricultural chemistry, agronomy, animal husbandry, animal pathology, dairy husbandry, entomology, forestry, horticulture, and other technical subjects related thereto. This group should also appeal to those who desire to prepare themselves for teaching in high schools or in agricultural colleges and who desire special agricultural training to meet the demands of the schools requiring that instruction be given in agriculture. As a course in general education for students who expect to follow business pursuits or to continue still further the study of some technical agricultural subject, this course is offered as a suitable foundation. To those who desire an education which will put them in touch with the leading industrial activities of the state, and fit them to be leaders on the farm, the Agricultural course will also prove most efficient.

**Forestry Group.** This group is designed to guide the student in the selection of courses and is aimed to prepare men for either general or technical work in forestry. The sequence of the courses during the first three years is arranged to give a basis for a broad education and at the same time to give a good scientific foundation leading to the more technical courses in forestry. While the group is intended primarily for foresters, many of the courses may be taken by students in general collegiate work or by students specializing in other lines, who desire a knowledge of some particular line of forestry.

**The Home Economics Group** leads to the degree of Bachelor of Science. Besides those subjects which have to do especially with the home, it includes studies in science, language, history, and other branches affording a good general education while giving special efficiency in household arts and sciences.\* This department is housed in Home Economics Hall, situ-

\*For the University Teachers' Certificate in Home Economics, see department of Home Economics under "Courses of Instruction." Also, page 269.

ated on the University Farm. The hall is a three-story brick building, equipped to provide practical instruction in cooking, sewing, and general house work.

### FACILITIES FOR INSTRUCTION

To illustrate properly the work in the various departments in agriculture, the college is provided with a farm of 320 acres which is used for experimental purposes and to illustrate methods in farm practice, showing the effect of rotations and methods of treatment on the physical and chemical properties of the soil and on its productiveness. The department of Horticulture maintains an extensive orchard and garden for demonstrating horticultural methods and practices. The departments of Animal Husbandry and Dairy Husbandry keep extensive herds for instruction in types of farm animals. The agricultural plant, aside from lands, consists of eight main buildings and several barns and accessory buildings to complete the work and efficiency of the plant. Agricultural Hall is used for administration, library, and laboratories in Agricultural Botany. Experiment Station Hall furnishes laboratories for Soils, Entomology, and Agricultural Chemistry. The Judging Pavilion furnishes stock judging laboratories and grain judging laboratories, with exceptional facilities for work. The Agricultural Engineering building furnishes laboratories in forge work, wood work, and farm machinery. Horticultural Hall is devoted to laboratories and class rooms for horticultural instruction. Dairy Hall furnishes laboratories for instruction in buttermaking and cheesemaking, supplemented by a herd of exceptional efficiency to demonstrate the best dairy practice. Home Economics Hall furnishes laboratories for instruction in cooking and in household art. All of the technical departments giving instruction have excellent laboratory facilities and depend upon the laboratory method to give definiteness and efficiency to their instruction.

### ADMISSION TO THE COLLEGE OF AGRICULTURE

**Entrance Credits.** For admission to the freshman class in the College of Agriculture the candidate must present 30 entrance credits or "credit points;" that is, a total of 150 recitation hours. Conditional admission is permitted on a minimum of 24 points, or 120 recitation hours; but a student admitted conditionally must remove the conditions at the earliest possible opportunity. A degree will not be granted until all such conditions are removed.

**Required Subjects (17 points).**\* Of the 30 points required for admission, 17 must be presented from the following subjects in the amount indicated; the time element is essential:

Algebra (through Simultaneous Quadratics and Logarithms), 1½ years, 5 hours a week.....	3
Rhetoric and Literature, 2 years, 5 hours a week.....	4
Geometry (plane), 1 year, 5 hours a week.....	2
Language (ancient, modern), 3 years, 5 hours a week.....	6
History (European), 1 year, 5 hours a week.....	2
Physical Science (Physics), 1 year, 5 hours a week.....	2†

**Optional Subjects (13 points).** In addition to the above required subjects, for which no substitutes are accepted, candidates for admission must present 13 points from the following optional subjects:

Agriculture, 5 hours a week.....	1
‡Rhetoric and Literature, 1 year, 5 hours a week.....	2
‡History, 2 years, 5 hours a week.....	1 to 4
Language (ancient or modern), 4 years, 5 hours a week.....	2 to 8
Natural Science (Zoology, Botany), 1 year, 5 hours a week, each ..	1 or 2
Physical Science (Chemistry), 1 year, 5 hours a week.....	1 or 2
Physical Geography, ½ year, 5 hours a week.....	1
Solid Geometry, ½ year, 5 hours a week.....	1
Trigonometry (plane), ½ year, 5 hours a week.....	1
Other subjects taught in an approved manner in an accredited secondary school (one each).....	6

**Entrance Examination.** All students who have completed the course in the School of Agriculture are admitted to the College of Agriculture without examination. ¶ Young women graduating in Home Economics from the School of Agriculture are admitted to the Home Economics

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\*An "entrance credit" or "credit point" means the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses, a "credit point" means three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least eighteen weeks.

†May be offered as a substitute for two points language.

‡Two additional points are allowed only to schools named by the Accredited Schools Committee.

¶Beginning with September, 1911, one year of language will be required from graduates of the School of Agriculture for admission to the College of Agriculture.

group of the College of Agriculture. A graduate of an accredited secondary school or academy on presenting a certificate is admitted without examination to any classes for which he is fully prepared. Any candidate for admission having credentials from a high school, college, or university not included in the list of schools accredited to this University should forward his credentials to the Registrar and be prepared to take such examinations as may be prescribed. If such credentials do not clearly show the number of weeks study and the number of recitations a week together with the time devoted to laboratory work, if any, the prospective student should apply to the Registrar for blank credential slips. These should be properly filled out and returned, when he will be informed at once whether his credentials are or are not acceptable.

**Adult Special Students.** Students not candidates for degrees may register in the College of Agriculture without conforming to the entrance requirements. The admission of adult special students is permitted after consultation with and upon the recommendation of the Dean. Such students must pay all necessary fees. Upon fulfilling the entrance requirements, adult special students may register as regular students, and become candidates for the degree.

**Registration.** Registration in the College of Agriculture takes place during the first five days of each semester, from 9 a. m. Tuesday to 5 p. m. Saturday. To promote prompt registration, a registration fee of \$3.00 is charged a student who, without good reason, fails to register within the days set aside for this purpose.† A like fee is charged for the re-registration when made necessary by the student's fault; any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student is allowed to make such a change without written permission to the Registrar from the Dean of each college concerned.

No student is allowed to change his group or drop any study for which he has been regularly registered without written permission from the Dean of the college. No regular student is permitted to register for less than twelve (12) hours nor more than eighteen (18) hours a semester without the Dean's permission. Students cannot attend classes for which they are not registered, and credit is not granted for studies pursued without regis-

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†Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage, and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session.

tration. Any change in a student's residence must be immediately reported to the Registrar.

### FEES AND EXPENSES

**Fees.** All fees and charges are payable in advance to the Secretary of the University. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a class or from the University. The schedule of fees in the College of Agriculture is as follows:

Matriculation (paid only on first registration).....	\$5.00
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Being a statutory fee, this cannot be refunded except when collected through error.

Non-resident (charged to each person not a resident of the state), each semester.....	15.00
Incidental, each semester .....	3.00
Military*, for the year (men only) .....	1.00
Library (charged to each student who does not pay a laboratory fee), each semester.....	1.00
Special registration (for late registration or re-registration).....	3.00
Special examination, each course.....	1.00
Diploma, first degree.....	5.00
Diploma, advanced degree.....	10.00
Additional Diploma fee if degree taken <i>in absentia</i> .....	10.00
Certificate.....	1.00

### LABORATORY FEES

Agricultural Chemistry—Course 1, \$3; 2, \$4; 3, \$1; 4, \$2.

Agricultural Engineering—Course 1, 2, 11, \$3; 3, 5, 6, \$1; 4, 18, \$2; 9, 10  
12, 16, \$4.

Botany—Courses 1, 2, 21, 22, 25, 35, 36, 37, \$2; 13, 14, \$1; 6, 19, 20, \$3.

Chemistry—Courses, 1, 2, \$5; 14, \$8; 3, \$10.

Civil Engineering—Courses 5, 30, \$3.

Entomology—Courses 1, 2, \$2.

Geography—Courses 1, 2, \$1.

Geology—Course 1, \$1.

Home Economics—Courses 1, 2, 7, 8, 11, 12, 15, 16, \$2; courses 3, 4, \$3;  
courses 5, 6, \$5.

Physics—Courses 1a, 2a, \$1.

Physiology—Courses 1, 2, \$5.

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\*See foot-note, page 69.

**Expenses.** In Lincoln, board and lodging may be secured in private families from \$3.00 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and The Young Women's Christian Association of the University keep lists of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

#### REQUIREMENTS FOR GRADUATION

**University Credits.** For the degree of Bachelor of Science, 125 University "credit hours" are required.\* No student is recommended for a degree who is not within 18 hours of this requirement at the beginning of his last semester. All graduates of the School of Agriculture are admitted to the College of Agriculture without examination. No such graduate shall be permitted to take a degree from the College of Agriculture who does not have at least the equivalent of four credit points in Language, two points of which may be accepted as entrance credit.

**Required Subjects.** Each candidate for the degree of Bachelor of Science in the College of Agriculture must complete the following subjects:

	Hours
Modern Language (French or German).....	10
Biology (Botany, Entomology or Zoology) .....	10
Physical Science (Chemistry or Physics) .....	8
Biological, Physical, or exact Science.....	10
English (Rhetoric 1, 2, and 6 hours of Rhetoric or English Literature)	10
History, Political Science, Philosophy or Sociology .....	6
Military Science for men or Physical Training for women. ....	<u>4</u>
	Total, 58

**Science Requirement.** No student will be granted a degree from the College of Agriculture who has completed less than 60 hours of science, which may include Agriculture or Home Economics. Students selecting the Agricultural group will be required to complete 40 hours of agricultural subjects, to be taken in not less than three departments. Students selecting the Forestry group will be required to complete 40 hours of Botany and Forestry. Students selecting the Home Economics group will be required to complete 30 hours of Home Economics.

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\*A course receives one "credit hour" for each one-hour recitation or lecture and two-hour preparation or laboratory period it demands for each of the eighteen weeks of a semester.

**Military Drill Required.** Four hours of military science (courses A1, A2, AA1, AA2) are required of all men students. Only credibly attested physical disability, or conscientious scruples (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved by the Chancellor, each undergraduate man must fulfill this requirement in his freshman and sophomore years. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Thorough drill elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

**Major Subjects.** Not later than the beginning of his second year each student in the College of Agriculture must select some one department of the college in which he will take a major of not less than 16 hours nor more than 35 hours.

**State Teachers' Certificate.** Graduates of the College of Agriculture having taken a major in agriculture or the Home Economics group (including Courses 13 and 14), and having taken in addition thereto eight hours in Professional Education and who have devoted a half-year to the observation and practice of teaching, shall receive a State Teachers' Certificate, which qualifies them as supervisors and teachers in their chosen subject in the public schools of Nebraska.

**Advisers.** At the time of his first registration each Freshman student in the College of Agriculture is assigned by the Dean to some member of the Faculty, who becomes his adviser during the Freshman year. When, at the beginning of his second year, a major subject is chosen, the head of the department in which the major work is taken becomes the adviser of the student until the time of his graduation. The dean of the college constitute a head adviser for each student within the college. The Adviser to Women is a special adviser to all women students in the college.

**Absence or Withdrawal.** A leave of absence for a short time may be granted a student by the Dean. This leave is merely a justification for absence and not an excuse from any work. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

## ORDER OF COURSES IN THE GROUPS OF STUDY

## THE AGRICULTURAL GROUP

	FIRST YEAR	1st Semester Hours	2d Semester Hours
*Agricultural Subjects.....		3	3
Biology (Botany,† Entomology or Zoology‡) (A and S)		3	3
Chemistry 1, 2, (A and S)‡ .....		2	2
French or German (A and S)‡ .....		5	5
Rhetoric 1, 2 (A and S)‡.....		2	2
Military Drill.....		1	1
	—	16	16
SECOND YEAR			
*Agricultural Subjects.....		3	3
French or German (if four points foreign language have not been offered for entrance on admission to the college), or Natural, Physical or Exact Science.....		5	5
Rhetoric 5 and 6 or English Literature (A and S)‡ .....		3	3
Chemistry 3 or Physics 1a and 2a (A and S)‡ .....	5 or 4		
Biology (Botany, Entomology or Zoology) (A and S)‡.			4
Military Drill.....		1	1
	—	17 or 16	16
THIRD YEAR			
*Agricultural Subjects.....		7	7
Electives.....		6	5
History, Political Economy or Philosophy (A and S)‡ .....		3	3
	—	16	15

\*The "Agricultural Subjects" include Agricultural Botany, Agricultural Chemistry, Agricultural Engineering, Agricultural Geology, Agronomy, Animal Husbandry, Dairy Husbandry, Forestry, Geography, Horticulture, Economic Entomology, Agricultural Economics.

†Graduates of the School of Agriculture who have completed, in botany, 9 hours' work in class and practice, shall take Botany 3 and 4; others shall take courses 1 and 2.

‡Required courses not given in the College of Agriculture are marked with the initials of the college in which they are offered; e. g., (A and S) indicates that the subject is offered in the College of Arts and Sciences, (E) refers to the College of Engineering.

THE COLLEGE OF AGRICULTURE

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	FOURTH YEAR	1st Semester Hours	2d Semester Hours
†Agricultural Subjects.....		7	7
Electives.....		8	8
		—	—
		15	15

FORESTRY GROUP

FIRST YEAR

Botany 1, 2.....	3	3
German 1, 2 (A and S)*.....	5	5
Geography 1, 2.....	2	2
Chemistry 1, 2 (A and S)*.....	2	2
Rhetoric 1, 2 (A and S)*.....	2	2
Forestry 1, 2.....	2	2
Military Drill.....	1	1
	—	—
	17	17

SECOND YEAR

Botany 13, 14.....	2	2
Rhetoric 5, 6 (A and S)*.....	3	3
†Political Economy 17, 1 (A and S)*.....	(3)	3
Physics 1a, 2a (A and S)* .....	2	2
Dendrology (Botany 35, 36).....	2	3
Mathematics 1 (A and S)*.....	5	
Lettering and Drawing (Applied Mech. 10) (E)*.....	2	
Military Drill.....	1	1
	—	—
	17	14

THIRD YEAR

Botany 19, 20.....	3	3
Surveying 5, 5a, 30 (E)*.....	4	3
Botany 6 (A and S)*.....		3
Soils (Agronomy 7, 9).....	4	
Forestry 7, 8.....	2	2
Entomology 1, 2.....	3	3
Geography 4.....		2
	—	—
	16	16

FOURTH YEAR

Botany 21, 22 (A and S)* .....	2	2
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\*See third note at bottom of page 270.

†See foot-note (†) on page 272.

	1st Semester Hours	2d Semester Hours
Study of Woods (Botany 37) .....	3	
Timber Physics (Applied Mech. 20) (E)*.....	3	
Forestry 11, 12.....	3	3
Forestry 15, 16.....	3	3
Geology 1 (A and S)*.....	3	
†Zoology 1 (A and S)*.....	(3)	
†Forest Zoology 14 (A and S)*.....		(2)
†Electives.....		(3)
	—	—
	14	11

## FIFTH YEAR

Forestry 17.....	2	
Forestry 19, 20 .....	3	3
Forest Mycology (Botany 25).....	2	
Forest Entomology 11.....		2
Rhetoric 13, 14 (A and S)*.....	3	3
Forestry 21, 22 (Thesis).....	2	2
†Public Lands (American History 10) (A and S)* .....		(2)
‡Forestry 23, 24.....	(2 to 4)	(2 to 4)

## HOME ECONOMICS GROUP

## FIRST YEAR

Home Economics 1, 2 (Sewing and Design).....	3	3
Rhetoric 1, 2 (A and S)*.....	2	2
Chemistry 1, 2 (A and S)*.....	2	2
Language, Ancient or Modern (A and S)*.....	5	5
Botany, or Zoology (A and S)* .....	3	3
Physical Training.....	1	1
	—	—
	16	16

\*See third note at bottom of page 270; (E) refers to the College of Engineering.

†These subjects are elective, and on consultation with the head of the department may be selected towards the 125 hours of credit necessary for graduation.

‡Work in one of these courses or an equivalent along some other forestry line is required. The number of hours credit may be arranged by consulting the head of the department.

FIRST YEAR FOR STUDENTS WHO HAVE NO ENTRANCE CREDIT IN CHEMISTRY		1st Semester Hours	2d Semester Hours
Home Economics 1, 2 (Sewing and Design).....		3	3
Rhetoric 1, 2 (A and S)*.....		2	2
Physical Training.....		1	1
Chemistry A, B, (A and S)*.....		3	3
Language (Ancient or Modern) (A and S)* .....		5	5
Agricultural Engineering 5, 6 (Wood-work, Interior Finish).....		1	1
		—	—
		15	15
SECOND YEAR			
Home Economics 3, 4 (Foods: Selection and Prepara- tion).....		3	3
Chemistry 3 (Organic) (A and S)*.....		5	
Chemistry 14 (Food and Sanitary) (A and S)*.....			5
Physiology 1, 2 (A and S)*.....		2	2
English Literature 1, 2 (A and S)*.....		3	3
Physical Training.....		1	1
Physical Education 6 (Emergencies—First Aid).....			1
		—	—
		14	15
THIRD YEAR			
Home Economics 5, 6 (Advanced Cookery).....		3	3
Home Economics 7, 8 (Industrial Art) .....		3	3
Bacteriology 2a (A and S)*.....			2
†Philosophy, Sociology, or Political Economy (A and S)*	3		3
Electives.....	7		5
		—	—
		16	16
FOURTH YEAR			
Home Economics 9, 10 (Household Administration)...	2		2
Education 4 (Child Study) (A and S)* .....	3		
Greek 40 (Interpretation of Art) (A and S)* .....			2
History.....	3		3
Electives.....	8		8
		—	—
		16	16

\*See third note at bottom of page 270.

†Philosophy 1 and 2 required of candidates for the teachers' certificate. See page 269.

## COURSES OF INSTRUCTION

Students are advised to consult the heads of departments before registering.

For courses that may be chosen to apply as "Electives" see the general "Courses of Instruction" of the College of Arts and Sciences, the College of Engineering, and the Teachers College.

Courses included between brackets are not given in 1911-1912.

### AGRICULTURAL BOTANY

Professor Wilcox, Adjunct Professor Link

#### GENERAL INFORMATION

The office, laboratories and lecture room are located in Agricultural Hall. For use in the lectures, the department has a very extensive collection of lantern slides, charts and other illustrative material. An extensive pathological herbarium and collection of economic plants are being developed as rapidly as possible. The large private library of the professor of Agricultural Botany, particularly complete in phytopathology, is available for the use of advanced students. A greenhouse has recently been arranged and equipped for experimental work in physiology and pathology.

In connection with the Nebraska Seed Laboratory, maintained in co-operation with the United States Department of Agriculture, advanced students may secure practical training in seed testing. A limited number of advanced students with proper training can be offered exceptional opportunities for research work in phytopathology. In many cases it is possible for such students to receive compensation for work done in connection with problems being investigated by the department.

#### GRADUATE WORK

This department is especially prepared to offer graduate work in phytopathology and phytophysiology. To successfully undertake research work in this subject, students should have a broad training in general botany, chemistry and zoology; should be able to read French and German and should have taken Agricultural Botany 1, 2 and 3, 4. Before registration students should consult the head of this department.

#### FOR UNDERGRADUATES AND GRADUATES

1. **Elementary Plant Pathology**—A broad survey of the development and present condition of our knowledge of plant disease. Special attention will be given to diseases having their origin in malnutrition and unfavorable chemical and physical factors. The most typical and important diseases of our leading cultivated plants will be described in some detail. The laboratory work will acquaint the student with the current technique,

including the preparation and use of culture media, the establishment of pure cultures and artificial inoculation. Three hours lecture. Six hours laboratory. Three hours credit. Students are advised to take General Botany 15, 16 and 19, 20 before or with this course. Professor Wilcox

2. **Elementary Plant Pathology**—1 continued. Second semester.

3. **General Plant Pathology**—Prerequisite: Agricultural Botany 1, 2. An advanced course of lectures designed to furnish such a broad working basis as to enable one to engage in original research in plant pathology. The following are some of the subjects to be discussed: the physiology and cytology of resistance and immunity, origin of parasitism, specialization, epidemics and climatic factors, etc. Two hours lecture. Four hours reading. Two hours credit. First semester. Professor Wilcox

4. **General Plant Pathology**—3 continued. Second semester

5. **Seed Testing**—Methods of seed analysis, including quantitative and qualitative methods of making purity determinations. Identification of foreign seeds. Liability and purity tests of the seeds of the principal cereals, forage crops, and horticultural crops. One hour lecture. Six hours laboratory. Three hours credit. First semester. Professor Wilcox

6. **Seed Testing**—5 continued. Second semester.

7. **Forest Plant Pathology**—A special course designed to furnish information as to the principal diseases of forest trees. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Professor Wilcox

FOR GRADUATES

9. **Problems in Plant Pathology**—Prerequisite: Agricultural Botany 1, 2. Assigned problems in plant pathology. Laboratory work with hours for consultation. Two to five hours credit. First semester.

Professor Wilcox

10. **Problems in Plant Pathology**—9 continued. Second semester.

11. **Problems in Plant Physiology**—Assigned problems in the nutrition, growth, irritability or reproduction of plants. Laboratory work with hours for consultation. Two to five hours credit. Professor Wilcox.

12. **Problems in Plant Physiology**—11 continued. Second semester.

SCHOOL OF AGRICULTURE COURSES

A. **Elementary Agricultural Botany**—This course offers a general introduction to the science of botany. The students will become acquainted with the general morphology of the flowering plants. This will be accompanied by laboratory studies of the structure and activities of the plant cell and the principal tissues. One hour lecture. Four hours laboratory. Three hours credit. First semester.

Professor Wilcox, Adjunct Professor Link

**B. Elementary Agricultural Botany**—Elementary study of types of plants selected as far as possible with reference to their economic report in agriculture. One hour lecture. Four hours laboratory. Three hours credit. Second semester. Professor Wilcox, Adjunct Professor Link

**C. Elementary Plant Physiology**—An elementary study of the growth, nutrition, irritability and reproduction of plants with special reference to the application of these facts to plant culture. Two hours lecture. Two hours laboratory. Two hours credit. First semester.

Professor Wilcox, Adjunct Professor Link

**D. Elementary Plant Pathology**—An elementary study of the more common diseases of cultivated plants; the best methods of controlling these by spraying, proper methods of cultivation, use of resistant varieties, etc., will be discussed. Two hours laboratory. Two hours lecture. Second semester.

Professor Wilcox, Adjunct Professor Link

**E. Home Economics Botany**—This course offers a general introduction to the science of botany. The students will become acquainted with the general morphology of the flowering plants. This will be accompanied by laboratory studies of the structure and activities of the plant cell and the principal tissues. One hour lecture. Four hours laboratory. Three hours credit. First semester.

Adjunct Professor Link

**F. Home Economics Botany**—An elementary study of the bacteria, yeasts and fungi in the home. One hour lecture. Four hours laboratory. Three hours credit. First semester.

Adjunct Professor Coons

#### GENERAL BOTANY\*

Head Professor Bessey, Associate Professor Pool, Associate Professor Sponsler, Adjunct Professor Walker

**1. General Botany**—Introduction to structure of plants (cells, tissues, tissue systems). General morphology, physiology, and classification of representative species, including blue-green and green algae. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Head Professor Bessey, Miss Walker

**2. General Botany**—The general morphology, physiology and classification of representative species of brown algae to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Head Professor Bessey, Miss Walker

**13. Flowering Plants**—Principles of the classification of Monocotyledons and their particular application to the grasses. Two hours lecture. Four to twenty hours laboratory work in the field and herbarium. Two to six hours credit. First semester.

Head Professor Bessey, Associate Professor Pool

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\*See, also, Botany 6, page 112.

14. **Flowering Plants**—Principles of the classification of Dicotyledons and their particular application to the Composites. Otherwise as in course 13. Second semester.

Head Professor Bessey, Associate Professor Pool

15. **Mycology**—A study of the fungi and of Mycological literature; classification; physiology, life history, parasitism, symbiosis, heteroecism, mycorhiza, laboratory and field work. Three lectures, eight hours laboratory. Three hours credit. First semester.

Associate Professor Pool, Miss Walker

16. **Mycology**—The role of fungi in the production of plant diseases, bacterial diseases, epidemics, physical and climatic factors, pathological technique. Three lectures, eight hours laboratory. Three hours credit. Second semester.

Associate Professor Pool, Miss Walker

19. **Plant Physiology**—An introductory study of the processes and functions of plants. Including imbibition; osmosis, absorption; the relation of the soil and of solutes to the plant; the movement of substances in the plant body; transpiration; guttation; bleeding; maintenance and bodily form; turgor; secretion, waste products. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Associate Professor Pool

20. **Plant Physiology**—Photosynthesis; the question of the manufacture and assimilation of food; stomatal relations; the nitrogen cycle; the storage and digestion of foods; respiration and fermentation; growth and movement with special reference to the influence of external factors upon these phenomena; irritability; stimulus and response; correlation; reproduction of plants; death. Three hours attendance. Three hours credit. Six hours laboratory. Second semester.

Associate Professor Pool

21. **Plant Ecology**—The relation of plants to their environment; adaptation; alternation and zonation; factors of the habitat; use of ecological instruments. Two lectures, six hours laboratory. Two hours credit. First semester.

Associate Professor Pool

22. **Plant Ecology**—Mostly field work, with detailed studies and accurate observations. Two lectures, six hours laboratory or field work. Two hours credit. Second semester.

Associate Professor Pool

25. **Forest Mycology**—A study of the fungi which attack forest trees: the role of fungi in the decay of timber. Two lectures, six hours laboratory or field work. Two hours credit. First semester.

Associate Professor Pool

35. **Dendrology**—Brief review of the morphology and physiology of the tree. Forest regions and forest types. Distribution. Economic importance. Detailed study of dendrological and silvical characteristics

of about one hundred important forest trees. Two hours attendance. Four hours laboratory and field work. Two hours credit. First semester.

Associate Professor Sponsler

36. **Dendrology**—35 continued. Three hours attendance. Six hours laboratory and field work. Three hours credit.

37. **The Study of Woods**—Study of structure of important woods leading to identification and relation of structure to strength, weight, shrinkage, and other physical properties. Primarily for foresters; engineers may elect this course for two hours credit after consultation with the instructor. Prerequisites for foresters: Botany 6. Two hours attendance. Six hours laboratory. One hour reading. Three hours credit. First semester.

Associate Professor Sponsler

### AGRICULTURAL CHEMISTRY

Head Professor Alway, Adjunct Professor Trumbull

All courses in the department are given in Experiment Station Hall.

The work offered by the Department of Agricultural Chemistry is either research or direct preparation for research. In general only graduates, or undergraduates in their senior year, are prepared for this work, which is largely individual and the nature of which depends largely upon the student's previous work in chemistry, geology, physics and soils.

#### UNDERGRADUATE WORK

Courses 2, 4, 5, 6, and 8 are open to undergraduates who previously have had sufficient training. On account of the varied nature of the problems presenting themselves in agricultural chemistry students are urged to acquire as thorough a training as possible in inorganic, organic, analytical, and physical chemistry before specializing in this department. Only those whose training in pure chemistry has been thorough may hope to succeed in dealing with problems in agricultural chemistry.

#### GRADUATE WORK

Courses 2, 4, 5, 6, and 8 outlined below are primarily for graduates. In addition to these courses, graduate students may select problems in the chemistry of plants. The nature of the problem assigned to any particular student depends both upon his previous training and upon the lines of investigation in progress at the Experiment Station.

#### PRIMARILY FOR GRADUATES

2. **Analysis of Agricultural Products**—A course in the quantitative analysis of grain, flour, fruit, dairy products and fodders. Prerequisite: courses 1, 2, 3, 7, and 8 in Chemistry, or their equivalent. One hour attendance. Five hours laboratory. Two hours credit. Second semester.

Head Professor Alway

4. **Analysis of Soils and Fertilizers**—A course in the quantitative chemical analysis of soils and fertilizers. Prerequisite: courses 1, 2, 3, 7, and 8 in Chemistry, or their equivalent. One hour attendance. Five hours laboratory. Two hours credit. Second semester.

Head Professor Alway

5. **Research in the Chemistry and Physics of Soils**—The investigation in the field, in the laboratory, or in both, of some problem in soil chemistry or soil physics. Prerequisite for undergraduates: courses 7, 8, 9, and 10 in Agronomy. Two to five hours credit. First semester.

Head Professor Alway

6. **Research in the Chemistry and Physics of Soils**—5 continued. Second semester.

8. **Chemical and Physical Properties of Soils**—An advanced course on the chemical composition and physical properties of soils. This course is open to only those who have already taken courses 5 or 6 or who are taking course 6. Three hours credit. Second semester.

Head Professor Alway

#### SCHOOL OF AGRICULTURE COURSES

A. **Elementary Agricultural Chemistry**—General principles of chemistry. Special emphasis upon chemistry of agriculture. Three hours credit. First semester.

Adjunct Professor Trumbull

B. **Elementary Agricultural Chemistry**—A continued. Second semester.

#### AGRICULTURAL EDUCATION

Professor Hunter

1. **Agricultural Economics**—Beginning by calling attention to the fact that Agricultural Economics consists in applying the principles of general economics to the production, distribution, and consumption of agricultural wealth, the course deals with: (1) The factors of agricultural production; the economic properties of the factors of production; the guiding principle in the organization of the farm; the organization and size of the farm; the forces and conditions which determine the prices of agricultural products; distribution of wealth with especial reference to the rent of farm land, and to the conditions which enable farmers to save from their earnings; the principles to be followed in estimating the value of farm land and equipment. (2) All conditions which contribute to the efficiency of labor are considered; these include careful consideration of those things which must characterize rural environment in order that the health of the dwellers therein may be assured and their strength be

of that quality so essential to him who works on the farm; the mental qualities which must be looked for in farm laborers and what sort of educational material must be provided in order that ideal mental qualities may be induced; agricultural education is discussed as a means by which the efficiency of those who work on the farm may be increased; how the principles of division of labor may be used on the farm is given careful treatment. The systems of distribution by which farm labor may be reimbursed for the sacrifices made are discussed with a view to determining whether cooperation between employer and laborer is an advantage to agricultural promotion or the contrary. (3) The law of diminishing returns from the land is discussed under the eight topics usually assigned by Economists as a means by which its operation may be in a measure prevented; the connection between it and the Law of Malthus is emphasized and here again agricultural education is discussed with reference to its necessity for people in general in order that the proper foundations of an enduring civilization may be laid. (4) The last general subject to be considered is distribution. The systems of distribution are carefully defined and the student is led to determine which in his opinion is the best. The marketing of farm products is given careful consideration. Whether agricultural products should find a home market or an international one is given detailed discussion. The ultimate system of distribution and of agricultural industry that must be adopted in order that the highest agricultural development may take place is considered as carefully as time will permit. (5) Rural sociology is investigated and all phases of rural life studied for the purpose of giving the student an adequate notion of what conditions now prevail in rural communities, and of what should be done in order to improve and make them ideal. Senior year. Second semester. Three hours attendance. Three hours credit.

**2. Agricultural Pedagogy**—The subject matter which characterizes the various subjects for instruction in agriculture is given careful consideration, the first purpose being to give the student, even though he has not taken all the subjects known as agricultural, a general concept of what agricultural education means. Each subject is then taken up and discussed with the view of determining its educative value. In this portion of the subject the student must become familiar with the elementary terms used in educational psychology. The best methods of imparting instruction in agricultural subjects to rural and to high school students are then considered. The knowledge which should precede the study of every agricultural subject is carefully discussed, for too often attempts are made by teachers in rural schools to give agricultural instruction without having built a proper foundation. The time which should be devoted to agri-

culture in the rural schools and in the high school and what materials can best be used for instruction are discussed, and an attempt is made to formulate a rational system of instruction which will, with the ordinary scientific subjects of the high school, constitute an organic whole. Senior year. First semester. Two hours attendance. Two hours credit.

### AGRICULTURAL ENGINEERING

Professor Chase, Adjunct Professor Shedd, Mr. Baer, Mr. Sjogren.

1. **Farm Machinery\***—The practical study of all lines of agricultural implements, tillage, grading, seeding, harvesting, threshing and fertilizing machinery. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. First semester.

Adjunct Professor Shedd

2. **Farm Motors\***—The practical study of farm motors, the horse, windmill, steam boilers, steam engines, traction engines, gasoline engines, electric motors. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. Second semester.

Adjunct Professor Shedd

3. **Rural Architecture**—The laying out of farms, the study of houses, barns, granaries, sheds, fences, equipment, etc. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. First semester.

Professor Chase

4. **Farm Drainage and Rural Highways**—A study of methods of drainage, estimates, laying out drainage systems, etc. A study of the highways of Nebraska, construction and reconstruction, haulage, and highway laws. The first half of the time of this course is given to drainage, and the second to highways. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. Second semester.

Professor Chase, Mr.—

5. **Wood Work and Interior Finishing\***—Practice at the bench with light carpenter tools and the care of edged tools for the home. Work in the construction of furniture, painting, oiling, and finishing the same. Instruction in the planning of the home, the designing, selection and care of the interior finish. One hour attendance. Two hours practice. One hour credit. For women only. First semester.

Mr. Baer

6. **Spraying Machinery\***—The designing of spraying outfits, practice with the gasoline engine, mixers and pumps and a study of nozzles. Three hours laboratory. One hour credit. First semester.

Professor Chase

7. **Research Work in Rural Architecture, Farm Drainage and Rural Highways**—The wide range of these subjects offers a great field of original

investigation: drainage, water supplies, heating, fencing, building materials, sewage, road construction, etc. Prerequisite: Courses 3 and 4. From six to fifteen hours laboratory or reading. From two to five hours credit.

Professor Chase, Adjunct Professor Shedd

**8. Research Work in Farm Machinery, Farm Motors and Farm Equipment**—The large equipment of machinery in the department gives an excellent opportunity for testing both in the laboratory and in the field, standardizing, traction tests, calibration and economic tests of both farm machinery and farm motors. Prerequisite: Courses 1 and 2. From six to fifteen hours laboratory or reading. From two to five hours credit.

Professor Chase, Adjunct Professor Shedd

**9. Carpentry\***—Practice with the care, use and adjustment of tools, exercises in Bench Work, Farm Equipment and Farm Building Construction. Lectures on the cutting, selecting, milling and durability of timbers. One hour attendance. Eight hours laboratory. Three hours credit.

Mr. Baer, Mr. \_\_\_\_\_

**10. Forge Work\***—Practice in forging, welding, tempering, pipe fitting, babbiting, chipping and repairing of Farm Machinery. Lectures on metallurgy of iron and steel, on wheelwright and shoeing. One hour lecture. Eight hours attendance. Three hours credit. Mr. Sjogren

**11. Advanced Farm Machinery**—Laboratory work in the testing of field machines under various conditions. The testing of grinders, shellers, twine, etc. Prerequisite: Course 1. Six hours laboratory. Two hours credit. First semester.

Adjunct Professor Shedd

**12. Advanced Farm Motors**—Complete tests of Farm Motors, both in the field and laboratory. Prerequisite: Course 2, Mechanical Engineering 10, and in connection with Mechanical Engineering 16. Six hours laboratory. Two hours credit. Adjunct Professor Shedd

**13. Perspective Drawing of Landscape\***—Being lessons in the use of instruments and perspective drawing. Perspective drawing of buildings and landscapes. Primarily for students in horticulture specializing in landscape architecture. Three hours attendance. One hour credit. First semester, 1912-13, and 1914-15

Professor Chase \*

**18. Wood Work and Interior Finishing\***—Continuation of Course 5 but with hard woods. Prerequisite: Course 5. One hour attendance. Two hours practice. One hour credit. Second semester. Mr. Baer

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\*Courses 1, 2, 5, 6, 9, 10, 13, and 18 for undergraduates; courses 3, 4, 7, 8, 11, 12, 14, 15, and 16, for undergraduates and graduates.

### AGROMONY AND FARM MANAGEMENT

Professor Pugsley, (Professor Montgomery,) Assistant Professor Barker  
(Soils), Assistant Professor Hopt (Crops), H. J. Gramlich,  
Assistant (Soils)

Students should have at least one year's work in Botany, Chemistry and Geology. Courses are offered to meet the needs of (1) those students taking general culture courses, or interested in farm operations or the management of land; (2) those fitting themselves to be agricultural teachers or investigators.

Excellent opportunities are offered for graduate students who desire to take up research work. Training in natural and physical sciences is necessary for students taking graduate work. Lines of research work are open to students of this class upon consultation with the head of the department. Graduate courses will also be found under Experimental Agronomy.

#### FOR UNDERGRADUATES AND GRADUATES

1. **Forage Crops**—Classification, method of improvement of forage crops, their adaptability and distribution, methods of seeding and harvesting, treatment of pastures. Three hours attendance. Six hours preparation. Three hours credit. First semester. Assistant Professor Hopt

2a. **Cereal Crops**—Classification and methods of improvement of cereal crops, their adaptability and distribution, time and methods of seeding, harvesting and cultivating. To be taken in connection with course 2b. Two hours attendance. Four hours preparation. Two hours credit Second semester. Assistant Professor Hopt

2b. **Grading and Judging Grains**—Laboratory practice in describing, scoring, judging and inspecting cereals by outlines and score cards. Methods of breeding to improve these cereals. To be taken in connection with course 2a. Four hours laboratory. Two hours preparation. Two hours credit. Second semester. Assistant Professor Hopt and Assistants

3. **Farm Management**—Dealing with farm problems such as farm location, equipment, labor, marketing, accounting. Should be preceded by courses 1, 2a, 7 and 9. Three hours attendance. Six hours preparation. Three hours credit. First semester. Professor Pugsley

4. **Farm Management Seminar**—Prerequisite: course 3. This course deals with problems in farm management and is a continuation of course 3. Special lines of investigation relating to farm management are taken up by the students. Three to fifteen hours meeting, preparation and library. One to five hours credit. Second semester. Professor Pugsley

5. **Advanced Field Crops**—Study of methods of crop treatment, commercial grading of grains and hays—lectures, laboratories and readings.

Prerequisite: Courses 1, 2a, 2b, 7 and 9. Three to fifteen hours work. One to five hours credit. First semester.

Professor Pugsley, Assistant Professor Hopt

6. **Advanced Field Crops**—5 continued. Second semester.

7. **Soils**—Origin, nature and properties of soils, their relation to plant growth and crop production. Should accompany course 9. First and second semester. Two hours attendance. Four hours preparation. Two hours credit

Assistant Professor Barker

8. **Soils**—7 continued. Second semester.

9. **Soil Physics**—Physical properties, weight, pore space, specific gravity, soil moisture, soil temperature, effect of various forms of tillage on plant growth. Should accompany course 7. Laboratory, two to eight hours attendance. One to four hours preparation. One to four hours credit. First and second semesters. Assistant Professor Barker and Assistants

10. **Soil Physics**—9 continued. Mechanical analysis and elementary soil mapping. Second semester.

11. **Soil Management**—Principles governing the management of land, crop system, tillage, rotations, manuring, fertilizing, drainage and aeration. Prerequisite: Courses 1, 2a, 7 and 9. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Professor Pugsley, Assistant Professor Barker

11a. **Soil Management Laboratory**—Given in connection with 11. Treating of principles governing the management of land from the practical standpoint. Four hours attendance. Two hours preparation. Two hours credit. First semester.

Assistant Professor Barker

13. **Advanced Soils**—Factors influencing the productive capacity of lands. Lectures, readings, and laboratory. Credit according to work. To be arranged with head of department and assistant. Prerequisite: Courses 1, 2a, 7 and 9. First semester.

Assistant Professor Barker

14. **Advanced Soils**—13 continued. Second semester.

15. **Crop Management**—A practical course for the student who expects to operate a farm or manage farms for other people. Dealing with the management of various farm crops. Primarily designed for school of agriculture credit. Two hours attendance. Four hours preparation. Two hours credit. First semester. To be arranged with head of department and assistant.

Professor Pugsley, Assistant Professor Hopt

17. **Farm Documents**.—A course dealing with legal papers with which the farmer should have a working knowledge, such as deeds, mortgages, leases, negotiable instruments, etc. Some time will be devoted to those phases of rural law bearing most directly upon farm management problems. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Professor Pugsley

**18. Farm Accounting**—Continuation of 17. A course dealing with the importance of keeping farm accounts, in which a simple and practical system will be discussed. The subject matter and the arrangement of the farmers library will receive some attention. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Professor Pugsley

**19 Agronomy**—Given only during summer session. A combined course in field crops and soils, especially prepared for those desiring to teach agriculture in secondary schools. Five lectures. Ten hours laboratory. Three hours credit. Summer session. Assistant Professors Barker and Hopt

SCHOOL OF AGRICULTURE COURSES

**A. Crop Management**—History, composition, improvement, production, and disposal of principal cereal and forage crops with special reference to Nebraska conditions. Three hours attendance. Three hours credit. First semester.

Assistant Professor Hopt

**Aa. Crop Management Laboratory**—To accompany lectures in A. Two hours laboratory. One hour credit.

**B. Crop Management**—A continued. Second semester.

**C. Crop Laboratory**—Instruction in types, varieties, and quality of cereals, judging by score cards. Identification of grass and legumes and weed seeds. Four hours laboratory. Two hours credit. First semester.

Assistant Professor Hopt and Assistants

**D. Crop Laboratory**—C continued. Second semester.

**E. Farm Management**—Practical farm problems, such as location, laying out, equipment, system of rotation, and marketing. Two hours attendance. Two hours credit. First semester. Professor Pugsley

**F. Farm Management**—E continued. Farm accounting and legal papers. Second semester.

**G. Soil Tillage and Management**—Order, deposition and natural transportation of soils, physical and chemical constitution of soils and subsoils, size of soil particles in relation to drainage, aeration, water storage and capillarity. Two hours attendance. Two hours credit. First semester.

Assistant Professor Barker

**H. Soil Tillage and Management**—G continued. Second semester.

**I. Soil Laboratory**—Formation of soil from rock, study of texture and its influence on plant growth. Humus, soil moisture, movement of air, specific gravity and volume weight. Four hours laboratory. Two hours credit. First semester. Assistant Professor Barker and Assistants

**J. Soil Laboratory**—I continued. Second semester.

**EXPERIMENTAL AGRONOMY**

Professor Montgomery (Professor Pugsley), Adjunct Professor Hopt  
The courses offered in this department are intended primarily for those

desiring to take up advanced work in Agronomy. Extensive lines of investigation are under way and opportunity is offered to work up some special line. All general courses in Farm Management are prerequisite. Students taking this work are expected to spend the summer season on the experimental farm, for which a moderate compensation is allowed. Only a limited number of students can be accommodated.

**1. Investigation**—Satisfactory work on some special line of investigation with assigned readings. Six to twenty hours laboratory. Thesis required. Two to five hours credit. First semester.

Professor Montgomery

**2. Investigation**—Continuation of 1. Second semester.

**3. Methods of Investigation**—Compilation of experimental data. Correlation tables. Statistical methods. Six to twenty hours laboratory. Two to five hours credit.

Professor Montgomery

**4. Methods of Investigation**—Continuation of 3. Second semester.

### ANIMAL HUSBANDRY

Head Professor Smith, Assistant Professor Rail, Adjunct Professor Lee

PRIMARILY FOR UNDERGRADUATES

**1. Breeds of Live Stock**—History of different breeds of live stock. Methods in development of breeds. Characteristics and adaptability of improved breeds. Must be accompanied by course 3. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Assistant Professor Rail

**2. Principles of Animal Breeding**—Theory and practice of animal breeding, variation, correlation, heredity, prepotency and selection. Grading, crossing, line breeding, inbreeding and pedigrees. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Assistant Professor Rail

**3. Judging Live Stock**—Practice with the score card. Competitive judging of classes by ages of horses, cattle, sheep, and swine. Must be accompanied by course 1. Four hours attendance. Two hours preparation. Two hours credit.

Assistant Professor Rail

**4. Judging Live Stock**—Continuation of course 3, which must precede it. Two hours attendance. One hour preparation. One hour credit. Second semester.

Assistant Professor Rail

**5. Animal Nutrition**—General composition of animal body. Composition and digestibility of foods. Digestion, absorption, and excretion. Feeding standards. Methods of feeding all classes of farm animals. Influence of food on animal form and on quality of meat and milk. Three hours attendance. Six hours preparation. Three hours credit. Second semester.

Head Professor Smith

**6. Animal Nutrition**—5 continued. Advanced course. Review of recent bulletins on feeding. Methods employed in conducting experiments in feeding. Two hours attendance. Four hours preparation. Two hours credit. First semester. Adjunct Professor Lee

**7. Judging Live Stock**—Advanced course. Prerequisite: Courses 3 and 4. Two hours attendance. One hour preparation. One hour credit. First semester. Head Professor Smith and Assistant Professor Rail

**8. Judging Live Stock**—Continuation of 7 and must be preceded by it. Two hours attendance. One hour preparation. One hour credit. Second semester. Head Professor Smith and Assistant Professor Rail

**9. Judging Live Stock**—Continuation of 8. Two hours attendance. One hour preparation. One hour credit. First semester.

Head Professor Smith and Assistant Professor Rail

**10. Animal Nutrition**—Seminar. Must be preceded by 5 and 6. Two hours attendance. Two hours preparation. One hour credit. Second semester. Head Professor Smith

#### SCHOOL OF AGRICULTURE COURSES

**A. Breeds and Live Stock Judging**—History and development of horses, breeds of cattle, sheep, and swine. Judging breeds by the score card and by competitive methods. Selecting animals for feeding purposes, judging meat carcasses. Three hours attendance. Three hours credit. First and second semesters. Assistant Professor Rail

**B. Principles of Breeding**—Elementary study of heredity, variation, and selection; prepotency; effect of pure-bred animals in improving common types. Three hours attendance. Three hours credit. First and second semesters. Assistant Professor Rail

**C. Feeding Live Stock**—Elementary discussion of composition of animal body and of foods. Influence of food on animal form. Economical feeding of farm animals. Five hours attendance. Five hours credit. Second semester. Adjunct Professor Lee

**D. Judging Live Stock**—Advanced course for third year students. Prerequisite: course 8. One hour attendance. One hour credit. First semester. Assistant Professor Rail

**E. Judging Live Stock**—D Continued. Second semester.

#### ANIMAL PATHOLOGY

Professor Gain, Assistant Professor Sturdevant

**2. Diseases of Farm Animals**—Causes and prevention of animal diseases. Emergency treatment and minor surgery. Three hours attendance. Six hours preparation. Three hours credit. Second semester.

Associate Professor Gain

## SCHOOL OF AGRICULTURE COURSES

**A. Anatomy and Physiology**—Study of skeletons of horse and cow. Anatomy of digestive system and physiology of digestion. Circulatory system and study of blood. Three hours attendance. Three hours credit. First semester. Assistant Professor Sturdevant

**B. Anatomy and Physiology**—Respiration. The nervous system. The senses. The foot. Generation and development. Three hours attendance. Three hours credit. Second semester. Assistant Professor Sturdevant

**C. Diseases of Farm Animals**—Hereditary diseases. Diseases of respiratory system. Prevention of digestive diseases. Minor emergency surgery. Prerequisite: Anatomy and Physiology A and B. Three hours attendance. Three hours credit. First semester. Professor Gain

**D. Diseases of Farm Animals**—Contagious diseases. Hygiene and Farm Sanitation. Three hours attendance. Three hours credit. Second semester. Professor Gain

**E. Elements of Physiology**—Bones of skeleton. Digestion. The circulatory system. Respiration. The senses. Drugs and stimulants. Two hours attendance. Two hours credit. First semester.

Assistant Professor Sturdevant

**F. Hygiene and Sanitation**—Personal hygiene. Domestic hygiene. Ventilation and water supply. Public hygiene. Two hours attendance. Two hours credit. Second semester. Assistant Professor Sturdevant

(Offered in the course for women in the School of Agriculture.)

## DAIRY HUSBANDRY

Head Professor Haecker, Adjunct Professor French

**2. General Survey of Home Dairying**—Composition of milk and dairy products. Production, handling, testing, and uses of milk. The creaming of milk by centrifugal separators. Ripening, testing, and churning of cream. Making, scoring, and marketing butter; cheese making. Dairy stock breeding, feeding and judging. Two hours attendance. Six hours laboratory. Four hours credit. Second semester.

Head Professor Haecker, Adjunct Professor French

**3. Dairy Stock Judging**—A special course in dairy stock judging. Work given with the four dairy breeds—Ayrshires, Guernseys, Holsteins, and Jerseys. Two hours attendance. One hour preparation. One hour credit. First semester. Head Professor Haecker

**4. Economic Dairying**—Advanced study in dairy husbandry, taking up the scoring of dairies by the score card system and the management of the market dairy. Prerequisite: Course 2. Text-book, with readings in station bulletins and publications. Two hours attendance. Two hours credit. Second semester. Adjunct Professor French

**6. Dairy Husbandry**—Prerequisite: Courses 2 and 4. Advanced studies in experiment station findings. A reading course with one lecture a week. Eight hours preparation. Three hours credit. Second semester.

Head Professor Haecker

**8. Dairy Stock Judging**—A continuation of course 3. One hour preparation. One hour credit. Second semester.

Adjunct Professor French

#### SCHOOL OF AGRICULTURE COURSES

**A. General Study of Home Dairying**—Secretion, composition and production of milk. Practice with the various centrifugal hand-separators. Butter making, milk and cream testing. Two hours attendance. Four hours laboratory. Two hours credit. First term.

Head Professor Heacker, Adjunct Professor French

**B. General Study of Home Dairying**—A continued. Practice with the lactometer. Cheese making. Care and judging of dairy stock. Milk and its products. Two hours attendance. Four hours laboratory. Two hours credit. Second term.

Head Professor Haecker, Adjunct Professor French

#### ENTOMOLOGY

Head Professor Bruner, Associate Professor Swenk, Mr. Dawson

Courses 1 and 2 are open to all students, and they, or their equivalent, must precede all other courses in Entomology except 3, 4a, 9 and 10. Courses 3 and 4, or 4a, must precede courses 7 and 8.

#### GRADUATE WORK

A candidate for the degree of Master of Arts in Entomology must have had Zoology 1 and 2, or their equivalents, in addition to Entomology 1 and 2. He should be able to read Latin and either French or German, or both.

The department has in Experiment Station Hall a laboratory fully equipped for the use of students engaged in research work along systematic lines, and also a modern insectary well provided with apparatus useful in facilitating research in Economic Entomology for those investigating the life-histories of insects. A collection of insects numbering approximately 135,000 pinned specimens is well housed in special cabinets and Schmitt boxes and is available for study by advanced students; it is particularly rich in Hymenoptera, Diptera and Orthoptera and contains many specimens of these orders named by specialists, including a considerable number of their types. While the greater portion of the collection is representative of our state and national fauna, it is also exceedingly rich in exotic material from Argentina, Costa Rica and Mexico. The library contains practically complete files of all American and the principal foreign entomological

periodicals as well as most of the special monographs in the various orders, and is readily accessible to advanced students, while the excellent economic libraries of the State Entomologist and Nebraska Experiment Station are close at hand and available for reference. The results of studies carried on in the department are issued consecutively in a numbered series.

#### MASTER OF ARTS

As his major for the degree of Master of Arts the student may choose either courses 15 and 16 or 17 and 18. He may elect his first and second minors from the other courses offered as graduate studies in this department or from the courses offered as graduate studies in the Department of Zoology.

The graduate work of this department is of so technical a nature, being chiefly designed to prepare students as government, state or experiment station investigators in Entomology, or as museum scientists, that each student should consult with the head of the department before registering.

#### PRIMARILY FOR UNDERGRADUATES

**1. General Entomology**—A general survey of the class Insecta, with introductory lectures on arthropod structure, physiology, transformations, distribution and behavior, followed by a consideration of the characteristics of the orders, suborders and principal families of insects, and the life-histories and habits of typical species. Laboratory dissections of typical forms of the various orders, correlated with the lectures. Three hours attendance. Six hours laboratory and preparation. Three hours credit. First semester.

Head Professor Bruner, Mr Dawson

**2. General Entomology**—1 continued. In addition, general work in the collection and classification of insects, and the study of microscopical forms. Three hours attendance. Six hours laboratory and preparation. Three hours credit. Second semester.

**3. Economic Entomology**—An introduction to the practical phases of entomology, presenting the broad principles of insect damage and control. Types of insect injury; beneficial insects; parasitism; gall formation; fungous and bacterial diseases of insects; climatic influence on insect control; cultural preventives and artificial remedies in fighting insect pests. Assigned readings and laboratory work in rearing insects and following out life-histories in the insectary, designed principally to give the student a general view of insect metamorphosis and of insectary methods and the use of apparatus. Two hours attendance. Four hours laboratory and preparation. Two hours credit. First semester.

Head Professor Burner, Associate Professor Swenk

**4. Economic Entomology**—3 continued. Detailed studies of our most conspicuous insect pests concerning their life-histories and habits, and pre-

ventives and remedies for them, and in the spring observations of their work in the field. One hour attendance. Five hours laboratory, preparation and field work. Two hours credit. Second semester.

**4a. Economic Entomology**—A combination of courses 3 and 4, especially for second year students in the Agricultural Group. Three hours attendance. Nine hours laboratory, preparation and field work. Four hours credit. Second semester.

Head Professor Bruner, Associate Professor Swenk

FOR GRADUATES AND UNDERGRADUATES

**5. Systematic Entomology**—A study of the principles and machinery of classification as applied to insects. Taxonomic groups; evaluation of characters; evolution of organs; dimorphism; nomenclature codes; synonymy; types; methods of description; construction of tables; use of reference books; faunal areas; ecological methods. Laboratory work with various insect groups designed to give a conception of the varying value of classificatory characters. Two hours attendance. Seven or more hours laboratory. Three or more hours credit. First semester.

Associate Professor Swenk

**6. Systematic Entomology**—5 continued. In addition, a detailed study of entomological technique involving the methods of collecting, preparing and preserving entomological specimens for the cabinet and museum; entomotaxy; use of entomological apparatus; entomography; entomological literature and methods of publication; bibliography, index and catalog compilation. Two hours attendance. Seven or more hours laboratory and field work. Three or more hours credit. Second semester.

**7. Advanced Economic Entomology**—A review of the groups of insects injurious to any host plant or group of plants, including the insect enemies of corn, the small grains, alfalfa and clover, grasses, potato, sugar beet, garden vegetables, apples, stone fruits, grape and bush fruits. Assigned and original laboratory work in life-histories and actual field work in investigating insect pests. Two hours attendance. Ten or more hours laboratory. Four or more hours credit. First semester.

Head Professor Bruner, Associate Professor Swenk

**8. Advanced Economic Entomology**—7 continued. In addition, a consideration of the principal insect enemies of domestic animals and stored vegetable and animal products, the preparation and use of insecticides and methods of spraying and fumigation; nursery inspection; determination of injurious scale insects; entomological office methods; insect photography. Two hours attendance. Ten or more hours laboratory. Four or more hours credit. Second semester.

9. **Apiculture**—A general survey of the subject, including a discussion of the structure, life-history, varieties and communal life of the honey bee; methods of handling bees, formation of colonies, enlarging brood nests, controlling the colony growth, rearing of queens, honey and wax production, honey-producing plants, apiary paraphernalia and the symptoms, etiology and control of bee diseases and other enemies of bees. One hour attendance. Two hours laboratory and reading. One hour credit. First semester.

Head Professor Bruner

10. **Domestic Entomology**—A series of lectures on insects affecting the household, with suggestions for their control. House ants, cockroaches, termites, silver fish, clothes moths, carpet beetles, skippers, flour beetles and meal worms, lice, fleas, house flies, mosquitoes, etc. One hour attendance. Two hours laboratory and reading. One hour credit. Second semester.

Associate Professor Swenk

11. **Forest Entomology**—Lectures and laboratory studies of the insects of the forest. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters.

Head Professor Bruner

12. **History of Economic Entomology**—An outline of the history of entomology, particularly the development of economic entomology from the earliest efforts down to the work of Riley and the advent of the new school of entomologists. One hour attendance. Two or five hours assigned readings. One or two hours credit. Second semester.

Associate Professor Swenk

13. **Medical Entomology**—A study of insects in their relation to the transmission of certain human diseases and of their capacity as human parasites. One hour attendance. Two or more hours laboratory. One or more hours credit. First semester.

Head Professor Bruner

14. **Seminary**—The seminary work of the department is carried on by the Nebraska Entomological Society, an association of students specializing in entomology and taking advanced or graduate courses, meeting one evening each week for the presentation of papers and the discussion of current progress in entomological science. Time spent in the preparation of papers and attending meeting may be applied as laboratory work.

PRIMARILY FOR GRADUATES

These courses may be registered for repeatedly until the completion of the problem.

15. **Research in Systematic Entomology**—Independent studies under the advice of the head of the department leading to the monographing of some genus, subfamily or family of insects or the detailed study of the insect fauna of Nebraska in one of the larger groups. First semester.

Head Professor Bruner

16. Research in Systematic Entomology—15 continued. Second semester.

17. Research in Economic Entomology—Individual investigation of some special problem in economic entomology, usually the monographing of a series or group or species of economic importance. First semester.

Head Professor Bruner

18. Research in Economic Entomology—17 continued. Second semester.

#### SCHOOL OF AGRICULTURE COURSES

A. Agricultural Entomology—Insects in their relation to Agriculture. For men. Two hours lecture. First semester.

Associate Professor Swenk

B. Agricultural Entomology—Course A continued, taking up the principal insect pests of our crops. Second semester.

C. Home Economics Entomology—Insects in their relation to the household. For women. Two hours lecture. First semester.

Associate Professor Swenk

D. Home Economics Entomology—Course C continued. Second semester.

E. Farm Entomology—An abridgement of courses A and B for students in the winter course. Sixteen lectures. Associate Professor Swenk

#### FORESTRY

Associate Professor Sponsler in charge of the department, Adjunct Professor Duppert

Course 1 is open to all students. Before electing other courses students should confer with the head of the department. Courses 7, 8, 11, 12, 15, 16 may be taken by students in other departments; in addition to these courses 23, 24 may be taken as minors by graduates who are candidates for advanced degrees in other departments. Advanced students desiring to elect Forestry Problems (Forestry 23 and 24), or to pursue investigations along other forestry lines, may arrange the number of credit hours by consulting with the head of the department; no more than four credit hours will be allowed for this work in any one subject in one semester.

Course 17a is given by Mr. F. B. Moody, Assistant State Forester of Wisconsin, Courses 12a and 12b are given by Mr. William H. Mast, of the Forest Service, U. S. Department of Agriculture. Through the courtesy of the United States Forest Service, the University is able to announce several special lectures on various forestry problems. Special work is given in emergency surgery and in camp equipment, packing horses, etc. A special course is given in rhetoric which is designed to give the forestry student preparation for the writing of scientific articles on forestry.

This course is given in the Rhetoric Department, but both departments emphasize the proper use of text-book and lecture references, gathering of material, analysis, outlines, and structure. The articles are corrected for English in the Rhetoric Department and for scientific accuracy in the Forestry Department.

A degree of Master of Forestry is given upon satisfactory completion of the courses scheduled for the fifth year. This presupposes a major in Forestry and a minor in Botany. If a minor in Entomology, in Engineering or in other departments is desired, the student should confer with the heads of both departments. In addition, one year's practical field experience in forestry will be required before granting the Master's degree. This may be accomplished by vacation work or by a year's continuous work. Such experience is essential to proper training of the student and should be as diversified as possible.

1. **General Forestry**—Importance of forests and forestry in the life of the nation; relation of forestry to agriculture and to other industries; uses of wood. Two hours attendance. Four hours preparation. Two hours credit. First semester. Adjunct Professor Duppert

2. **General Forestry**—1 continued. Second semester.

7. **Forest Utilization**—Uses of timber; methods of logging and milling; cost of lumbering in various forest regions; seasoning, grading, markets, final product; secondary forest products; minor forest products. Two hours attendance. Four hours preparation. Two hours credit. First semester. Adjunct Professor Duppert

8. **Forest Utilization**—7 continued. Second semester.

11. **Silviculture**—Objects of silviculture; forest soils and their relation to tree growth; forest influences on soil, climate, and stream flow; forest types; pure and mixed forests. Three hours attendance. Five hours laboratory. One hour library work. Three hours credit. First semester. Adjunct Professor Duppert

12. **Silviculture**—11 continued. Methods of reproducing forests; forest nurseries, planting, thinning, harvesting; forest injuries and methods of prevention. Includes 12a and 12b. Three hours attendance. Five hours laboratory and field work. One hour library work. Three hours credit. Second semester. Adjunct Professor Duppert

12a. **National Forest Planting**—Methods of seed collecting, seed storing, nursery practice, and field planting. Six to eight lectures. Second semester. Mr. Mast

12b. **Commercial Nursery Practice**—Methods employed in various parts of the United States and relation to private planting. Six to eight lectures. Second semester. Mr. Mast

15. **Forest Mensuration**—Forest surveys and mapping. Methods of determining volume, age and increment of single trees and of stands. Three hours attendance. Five hours laboratory and field work. One hour library work. Three hours credit. First semester.

Associate Professor Sponsler

16. **Forest Mensuration**—15 continued. Second semester.

17. **Forest Policy**—Forestry methods in foreign countries and in the United States. State and national activity as to public and private holdings; taxation, benefits, fire laws, working forces, achievements. Includes 17a. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Associate Professor Sponsler

17a. **State Forestry**—Special state problems; management of state reserves; marking timber, trespass, timber sales. Ten to fifteen lectures. Second semester.

Mr. Moody

19. **Forest Management and Valuation**—Preparation of working plans for private, state and national holdings; valuation of forest soils and forest growth; administration, regulation of forests, and forest finance. Three hours attendance. Six hours preparation. Three hours credit. First semester.

Associate Professor Sponsler

20. **Forest Management and Valuation**—19 continued. Second semester.

21. **Thesis**—Subject for thesis is to be selected upon recommendation of the head of the department. Consultation hours to be arranged. Six hours preparation. Two hours credit. First semester.

Associate Professor Sponsler, Adjunct Professor Duppert

22. **Thesis**—21 continued. Second semester.

23. **Forestry Problems**—A definite problem will be assigned to each student. A written report is required upon completion of the work. Consultation hours to be arranged. Six to twelve hours laboratory. Two to four hours credit. First semester.

Associate Professor Sponsler, Adjunct Professor Duppert

24. **Forestry Problems**—23 continued. Second semester.

29. **Seminar**—Special phases of forestry with detailed reports by students. Current literature in forestry, forest botany, lumbering. Two hours attendance. Two hours library work. No credit. First semester.

Associate Professor Sponsler, Adjunct Professor Duppert

30. **Seminar**—29 continued. Second semester.

Botany 35. **Dendrology**—Brief review of the morphology and physiology of the tree. Forest regions, forest types, and forest trees of North America. Distribution. Economic importance. Detail study of den-

diological and silvical characteristics of about one hundred important forest trees. Two hours attendance. Four hours laboratory and field work. Two hours credit. First semester. Associate Professor Sponsler

Botany 36. **Dendrology**—35 continued. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester.

Botany 37. **The Study of Woods**—A study of the structure of the important woods leading to their identification and to the relation of structure to strength, weight, shrinkage, and other physical properties. Primarily for foresters. Engineers may elect this course for two hours credit after consultation with the instructor. Two hours attendance. Six hours laboratory. One hour reading. Three hours credit. First semester.

Associate Professor Sponsler

Civil Engineering 30. **Forest Survey**—Designed for students of forestry. Prerequisite: Civil Eng. 5, 5a. Field and map work. Three hours credit. Second semester.

Assistant Professor Bridgman

Applied Mechanics 20. **Timber Physics**—Physical properties of timber. Primarily for forestry students. Prerequisite: Study of Woods (Botany 37). One hour attendance. Six hours laboratory. Three hours credit. Second semester.

Head Professor Chatburn

Zoology 14. **Forest Zoology**—Life history and habits of animals, exclusive of insects, which affect the forest. Methods of control. Prerequisite: Zoology 1. Two hours attendance. Four hours laboratory and field work. Two hours credit.

Head Professor Wolcott

Botany 25. **Forest Mycology**—Detailed study of the fungi which attack forest trees. Two hours attendance. Six hours laboratory and field work. Two hours credit. First semester. Associate Professor Pool

Entomology 11. **Forest Entomology**—Insects of the forest. This course is intended for forestry students. Two hours lectures. Four hours laboratory. Second semester.

Head Professor Bruner

American History 10. **Public Lands**—Disposal and settlement of public lands. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Associate Professor Persinger

#### SCHOOL OF AGRICULTURE COURSES

A. **Farm Forestry**—Relation of forestry to agriculture. Wind-breaks, shelter-belts, and forest plantations. Methods of propagation, planting, and protection. Two hours attendance. Four hours library and field work. Two hours credit. Second semester.

Associate Professor Sponsler, Adjunct Professor Duppert

B. **Farm Forestry**—An adaptation of course A for students in the short course of the School of Agriculture. Sixteen lectures.

Associate Professor Sponsler, Adjunct Professor Duppert

**GEOGRAPHY AND ECONOMIC GEOLOGY**

Professor Condra, Associate Professor Loveland, Assistant  
Professor Bengtson

The agricultural subjects of this department are: Courses 1, 2, 4, 5, and 28. Course 1 considers the origin and description of land forms. Number 2 treats the structure, climate, topography, resources and industrial development of North America. It emphasizes the control of the various soil regions. Number 4, the geography and meteorology of the atmosphere, is especially designed to meet the need of agricultural students. Industrial Geography, Course 5, is planned for students who wish a detailed description of certain agricultural resources and industries. Course 28 gives only those geological facts which are of importance to students of this college.

1. **Physical Geography of the Land**—A practical course consisting of illustrated lectures, laboratory exercises and readings. Lecture topics: structure and relief features; maps and globes; origin of plains, plateaus and folds; wind erosion: dust and dunesand; sandhills and deserts; ground water; land slides, talus cones and slopes; rivers and the factors which influence them; development and classification of valleys; origin and classification of land forms produced by river erosion of plains, plateaus and folds; deltas, flood plains, fans and terraces; work of snow and ice; moraines, drumlins and till plains; topographic effects of earthquakes and volcanoes; lava plateaus. The course considers physiographic processes and their resulting land forms together with some of the influences which these bear to life and industry. The laboratory subjects are: minerals and rocks; wet laboratory experiments; maps, folio, atlas, and model interpretations and studies. Two hours attendance. Four hours laboratory and preparation. Two hours credit. First semester.

Professor Condra, Assistant Professor Bengtson

2. **North America**—The leading geographic conditions such as structure, topography, harbors and coast line, climate, and the natural resources are treated with considerable detail in their relation to the industrial, political, and social development of the topographic regions and countries. Most time is given to United States and Mexico. Considerable attention is given to the geography of Nebraska and to the physiographic development of the natural gateways or routes which lead into and across the continent. Lectures fully illustrated. Laboratory studies based on topographic and physical maps, climatic charts, atlases, and models. Attendance two hours. Laboratory, library and preparation four hours. Two hours credit. Second semester

Professor Condra, Assistant Professor Bengtson

4. **The Atmosphere**—A study of meteorology and geography of the atmosphere designed to meet the practical needs of students. Some of the topics considered are: The physical and chemical nature of the atmosphere; distribution of heat and atmospheric pressure; wind systems; humidity and rainfall; storms; hot winds; changes and fluctuations of climate; climatology in its relation to deserts, prairie land, forests, agriculture, and distribution of people. Students are taught the construction of weather maps and climatic charts; forecasting; and the use and care of meteorological instruments. Experiments of various kinds are performed in the wet laboratory. Two hours attendance. Four hours laboratory and preparation. Two hours credit. Second semester.

Associate Professor Loveland

5. **Industrial Geography**—This course gives a review of the natural resources and their conservation, and a specific study of mineral fuels, iron and steel, water power, cotton, rice, the sugars, coffee and tea, wheat, corn. The instruction is made concrete by the use of well selected sets of lantern slides which show the leading processes and commercial movements of each industry. Commercial raw materials are shown by museum specimens and excursions are made to local industries. Two hours attendance. Four hours museum, library and preparation. Two hours credit. First semester.

Professor Condra, Assistant Professor Bengtson

21. **Field Geology**—This course consists of excursions to quarries, gravel pits, sand dredges and outcropping formations along Salt Creek, Blue River and the Platte. It teaches methods of doing field work and how to use the aneroid barometer, level, transit, plane table, camera and drawing materials as employed on geological and soil surveys. Mapping and descriptions. Collateral readings. One or two hours credit. First and second semesters.

Assistant Professor Bengtson

22. **Field Geology**—21 continued. First and second semesters.

Professor Condra

28. **Agricultural Geology**—Leading geologic structures; soil forming, road and cement-making minerals and rocks; rock weathering; land erosion; ground water; rural water supplies; evolution of farm animals as shown by museum fossils; structure and soil regions of Nebraska; the agricultural importance of the "Red Bed," "Pierre, Bad Land, Loup Fork, glacial, loess, alluvial and dunesand formations." Two hours attendance. Four hours laboratory, field and preparation. Two hours credit. Second semester.

Professor Condra, Assistant Professor Bengtson

### HORTICULTURE

Professor Emerson, Assistant Professor Westgate, and Adjunct  
Professor Howard

#### GENERAL INFORMATION

The laboratories in Horticultural Hall are provided with charts, models, and specimens illustrating various phases of horticulture. They accommodate thirty students at a time. Greenhouse room is available for the plants used in experimental work. A small nursery in the horticultural grounds furnishes much of the material used in the laboratory and at the same time illustrates practical methods of propagating various plants. The orchards, vineyards and small fruit gardens of the Experiment Station afford practice work in pruning and training fruits and present the opportunity for comparison of various cultural methods. The farm campus and newly established arboretum furnish very good material for the study of landscape gardening. A limited number of advanced students who desire to fit themselves as teachers or investigators will be employed at a moderate compensation to assist in the laboratory of the School of Agriculture during the winter or to help in the experimental work of the Experiment Station during the summer. The investigations now being conducted by the department on the subject of heredity afford especially favorable opportunities to graduate students.

Botany 1 and 2 should precede all college courses in horticulture and must precede courses 7 and 8. All college courses are open to women as well as to men, but course 6 is especially recommended to women. Courses 5, 9 and 10 are open only to students specializing in horticulture. Students taking course 9 or 10 will ordinarily find it necessary to be at the Experiment Station during the summer.

#### PRIMARILY FOR UNDERGRADUATES

1. **Plant Propagation**—The multiplication of plants by means of seeds, bulbs, tubers, layers, cuttings, grafts, etc. Growing, packing, storing, and shipping nursery stock. Two hours attendance. Three hours laboratory. Two hours library. Two hours preparation. Three hours credit. First semester.

Assistant Professor Westgate

2. **Orcharding**—A detailed consideration of orchard management. The tree fruits grown in Nebraska are studied according to the following scheme: Selection of varieties, choice of site, preparation of the land, planting, cultivation, covercrops, fertilizers, wind-breaks, pruning, spraying, protection from frost, harvesting, packing, storing, marketing; renovating old orchards. Three hours attendance. Two hours laboratory. Two hours library. Two hours preparation. Three hours credit. Second semester.

Assistant Professor Howard

**3. Apple Judging**—A study of fall and winter varieties of apples adapted to Nebraska. Practice in judging with and without score cards, identifying and describing varieties, preparing exhibits, packing and storing, etc. One hour attendance. Four hours laboratory. One hour library. Two hours credit. First semester. Assistant Professor Howard

**4. Fruit and Vegetable Gardening**—Small fruits adapted to Nebraska are considered according to the scheme outlined for tree fruits in course 2. A part of the time will be devoted to a consideration of the more important garden vegetables. Three hours attendance. Two hours laboratory. Two hours library. Two hours preparation. Three hours credit. Second semester. Assistant Professor Howard

**5. Floriculture**—The production of flowers both indoors and outdoors for home use and for market. Particular attention will be given to the construction and management of greenhouses. Two hours attendance. Four hours laboratory. Two hours library. One hour preparation. Three hours credit. First semester. Assistant Professor Westgate

**6. Ornamental Gardening**—A consideration of the principles of landscape gardening with practice in landscape designing. A study of ornamental trees, shrubs and other plants adapted to planting in Nebraska: their classification, culture, and decorative value. Two hours attendance. Two or four hours laboratory. One hour or two hours library. One hour preparation. Two or three hours credit. Second semester.

Assistant Professor Westgate

FOR UNDERGRADUATES OR GRADUATES

**7. Principles of Plant Breeding**—An elementary study of the principles underlying plant improvement, including simple discussions of the following: How plant characters arise and disappear, sports or mutations, bud variation. How characters are inherited, alternate versus blended inheritance. Mendelian and non-Mendelian inheritance. Appearance and inheritance of latent characters. Reversion. Correlation of characters in inheritance. Degree of development of characters or fluctuation due to environment. Adaptation. Statistical study of fluctuations. Inheritance of fluctuations. Effect of selection in modifying the type of self- and open-pollinated plants. Pure lines. Mass selection versus isolation of biotypes. Pedigree breeding Hybridization as a means of combining desirable parent characters Inbreeding. Students will study and classify variations in wild and cultivated plants, prepare a herbarium of variations, practice hybridizing plants, and study hybrid material in the greenhouse and laboratory. Two hours attendance. Two hours laboratory. One hour library. One hour preparation. Two hours credit. First semester.

Professor Emerson

**8. Genetics**—Current theories of variation and heredity; their bearing upon plant breeding. A critical study of the published results of recent investigations. Assigned readings and consultation. Six or nine hours library. Two or three hours credit. Second semester.

Professor Emerson

**9. Horticultural Problems**—The study of assigned problems in plant breeding or in the production of horticultural crops. In the main only problems closely related to the investigations being conducted in the Experiment Station will be assigned. Laboratory or field work with assigned readings, consultation, and the preparation of a satisfactory thesis. Five to twelve hours laboratory. One to three hours library. Two to five hours credit. First and second semesters.

Professor Emerson

**10. Horticultural Problems**—Continuation of 1. First and second semesters.

**12. Landscape Design**—Lectures on special landscape gardening problems. Advanced work in designing home grounds, parks, etc. Detailed studies of plants and plantings, including excursions to places of special interest. One hour lecture. Three to four hours library. Five to ten hours laboratory. Three to five hours credit. Second semester.

Assistant Professor Westgate

#### SCHOOL OF AGRICULTURE COURSES

Courses A and B are for first-year men, courses C and D for second-year women, courses E and F for regular fourth-year men and irregular third-year men.

**A. Orcharding**—The management of both home and commercial orchards, including the propagation, culture, harvesting, storing, and marketing of such tree fruits as apple, pear, cherry, plum, and peach. Three hours attendance. Two hours laboratory. First semester.

Assistant Professor Westgate

**B. Small Fruits**—A study of such fruits as the strawberry, blackberry, raspberry, gooseberry, currant, and grape. Each fruit is studied with reference to soil, cultivation, propagation, pruning, varieties, harvesting, marketing, etc. Two hours attendance. Two hours laboratory. Second semester.

Assistant Professor Westgate

**C. Home Horticulture**—The home orchard and garden. The principles of ornamental gardening as applied to the home. Two hours attendance. Two hours laboratory. First semester.

Assistant Professor Westgate

**D. Home Horticulture**—Continuation of C. Second semester.

**E. Ornamental Gardening**—The general principles of ornamental gardening; methods and plans for ornamenting the farm home, city lot, etc. Two hours attendance. Two hours laboratory. First semester.

Adjunct Professor Westgate

**F. Vegetable Gardening**—General cultural requirements of our common vegetable crops. Two hours attendance. Two hours laboratory. Second semester.

Adjunct Professor Westgate

### HOME ECONOMICS

Professor Bouton, Associate Professor Folger, Miss Davis,

Miss Harper, Miss Nesbitt, Miss Hedges

#### GENERAL INFORMATION

The purpose of the department of Home Economics is to give instruction in branches which have to do with the welfare of the home. Training is provided in domestic science and art, and in household administration. Under these general divisions are studied: food, textiles and clothing; the house, its furnishing and the management of the work done therein. All these branches are considered in their relation to the family and the individual, with special emphasis on those phases which have to do with the health and comfort of the individual. Special attention is given to artistic, economic and sociological questions which form a legitimate part of the work.

Instruction is given by the lecture laboratory method.

For a major in Home Economics in the Teachers College the following courses are required: 1, 2, 3, 4, 5, 6, 9, 10, 13 and 14; for a minor, courses 1, 2, 3, 4, 5 and 6. The use of these courses as a major is conditional on the completion of Chemistry 1, 2, 3 and 14.

#### THE UNIVERSITY TEACHERS' CERTIFICATE IN HOME ECONOMICS

See statement under "Requirements for Graduation," page 269.

#### PRIMARILY FOR UNDERGRADUATES

**1. Sewing and Design**—Fundamental principles of hand and machine sewing applied to making of household articles, undergarments and shirt waist suit. Repairing, by patching and darning. Textiles, their manufacture, quality and value. Principles of design applied to Household Art. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester.

Miss Davis and Assistant

**2. Sewing and Design**—1 continued. Second semester.

**3. Foods: Selection and Preparation**—Composition and function of typical foods; fundamental principles and processes of cooking and their application in the preparation of individual dishes; nutritive and money

values. Should be preceded by Chemistry 1 and 2. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Associate Professor Folger, Miss Nesbitt

4. **Foods: Selection and Preparation**—3 continued. Second semester.

11. **General Cookery**—For juniors and seniors who desire some work in cookery, but have not the time for Courses 3, 4, 5 and 6. General principles and methods of cooking; lessons in serving. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Associate Professor Folger, Miss Harper

12. **General Cookery**—11 continued. Second semester

15. **Elementary Cookery**—For students who have no preparation in chemistry. One hour attendance. Three hours laboratory. One hour credit. First semester. Associate Professor Folger, Miss Nesbitt

16. **Elementary Cookery**—15 continued. Second semester.

FOR UNDERGRADUATES AND GRADUATES

5. **Advanced Cookery**—Application of scientific principles to more elaborate dishes and to menus. Preservation of foods; serving of meals. Two hours attendance. Six hours laboratory. Two hours credit. First semester.

Associate Professor Folger, Miss Nesbitt

6. **Advanced Cookery**—5 continued. Second semester.

5a. **Dietetics**—To be taken with course 5. Consideration of problems of digestion and metabolism. Study of dietaries of given cost and their adaptation to varying conditions of health, age, environment, etc. Diet of children; family dietaries; diet of invalids. One hour attendance with assigned readings. One hour credit. First semester. Associate Professor Folger

6a. **Dietetics**—5a continued. Institutional and special dietaries. Second semester.

7. **Industrial Art**—Crinoline modelling and advanced work in drafting, cutting, fitting and finishing gowns. Millinery, construction of frames, covering and trimming. Embroidery, the principal stitches used in decorative art and their application. Textiles, microscopical and chemical tests. Design, color work.

Miss Davis

8. **Industrial Art**—7 continued. Second semester.

9. **Household Administration**—House plans and furnishings; ventilation, heating, lighting, water supply, disposal of waste; management of household affairs, division of income, domestic service, and home nursing; house practice, including all processes of practical housekeeping. Two hours attendance. Two hours laboratory. Two or five hours outside preparation. Two or three hours credit. First semester. Professor Bouton

10. **Household Administration**—9 continued. Seocnd semester.

13. **Teachers' Course**—Required of candidates for the University Teach-

ers' Certificate in Home Economics. Lectures with practice work in Teaching. Two hours attendance. Four hours outside preparation, including practice teaching. Two hours credit. First semester.

Associate Professor Folger

14. **Teachers' Course**—13 continued. Second semester.

17. **Wood Work and Interior Finish**—(See Agricultural Engineering 5.)

18. **Wood Work and Interior Finish**—17 continued. Second semester.

#### SCHOOL OF AGRICULTURE COURSES

A. **Sewing and Design**—Hand and machine sewing, making of garments, study of form and color as applied in house furnishing; practice in house work. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Professor Bouton, Miss Hedges

B. **Sewing and Design, House Practice**—A continued. Second semester.

C. **Elementary Cookery**—Composition and preparation of food with a study of its relation to healthful living; house practice. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Miss Harper and Assistant

D. **Elementary Cookery, House Practice**—C continued. Second semester.

E. **Advanced Cookery**—Preparation and serving of meals; food for the sick; house practice. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Miss Harper and Assistant

F. **Advanced Sewing**—Drafting, cutting and making of garments, including shirt waist suit; application of design in stenciling; house practice continued. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Miss Denny and Assistant

C. **Household Management**—House planning and furnishing; home sanitation; domestic service and finance. One hour attendance. Three hours laboratory. Two hours outside preparation. Two hours credit. First semester. Professor Bouton and Assistant

H. **Dressmaking**—The designing and making of dresses. One hour attendance. Two hours outside preparation. Two hours laboratory. Two hours credit. Second semester. Miss Denny

#### MILITARY SCIENCE AND TACTICS

[See College of Arts and Sciences]

#### PHYSICAL EDUCATION

[See College of Arts and Sciences]

#### ZOOLOGY

[See College of Arts and Sciences]

# **The Agricultural Experiment Station for Nebraska**

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**GOVERNING BOARD OF THE EXPERIMENT STATION**  
 (The University Board of Regents)

**Officers**

HON. CHARLES SUMNER ALLEN, President . . . . .	Lincoln
HON. WILLIAM GUNN WHITMORE . . . . .	Valley
HON. VICTOR GERALD LYFORD . . . . .	Falls City
HON. CHARLES BARNEY ANDERSON . . . . .	Crete
HON. GEORGE COUPLAND . . . . .	Elgin
HON. FRANK LOUIS HALLER . . . . .	Omaha

**OFFICERS OF THE EXPERIMENT STATION**

EDGAR ALBERT BURNETT, B. Sc., Director.  
 JAMES STUART DALES, M. Ph., Financial Secretary.\*  
 WILLIAM WARNER MARSHALL, Executive Clerk.

**THE WORKING STAFF**

EDWIN MEAD WILCOX, Ph. D., Agricultural Botany.  
 FREDERICK JAMES ALWAY, Ph. D., Agricultural Chemistry.  
 LEON WILSON CHASE, B. Sc. in M. E., Agricultural Engineering  
 CHARLES W. PUGSLEY, B.Sc., Agronomy and Farm Management (Soils)  
 HOWARD REMUS SMITH, B. Sc., Animal Husbandry.  
 JAMES HARRISON GAIN, M. D. C., Animal Pathology.  
 †ARCHIBALD LOUIS HAECKER, B. Sc. A., Dairy Husbandry.  
 LAWRENCE BRUNER, B. Sc., Entomology.  
 EDWARD GERRARD MONTGOMERY, A.M., Experimental Agronomy.  
 †FRANK J. PHILLIPS, A. B., B. Sc., M. S. F., Forestry.  
 OLENUIS LEE SPONSLER, A. B., Forestry.  
 ERWIN HINCKLEY BARBOUR, Ph. D., Geology.  
 GEORGE RICHARD CHATBURN, A. M., Highway Engineering.  
 ROLLINS ADAMS EMERSON, B. Sc., Horticulture.  
 OSCAR VAN PEEL STOUT, C. E., Irrigation Engineering.  
 GEORGE ANDREW LOVELAND, B. S., LL. B., Meteorology.  
 WILLIAM PATTON SNYDER, M. S., Superintendent Experimental Sub-  
 station, North Platte.

\*By an act of the Legislature of the state of Nebraska, approved and in effect February 5, 1899, the state treasurer became *ex officio* custodian of the experiment station fund on and after July 1, 1899.

†Resigned.

‡Deceased.

- VENUS WORRELL POOL, A. M., Assistant in Agricultural Botany.
- ROBERT SAMUEL TRUMBULL, A. M., Assistant in Agricultural Chemistry.
- PERCY BONSFIELD BARKER, A. B., Assistant in Soils.
- THEODORE ALEXANDER KIESSELBACH, B. Sc., A. B., Assistant in Crop Agronomy.
- LAZELLE BRANTLEY STURDEVANT, A. M., M. D., Assistant in Animal Pathology.
- MYRON HARMON SWENK, A. M., Assistant in Entomology.
- ROBERT FRANCIS HOWARD, B. S. in Agr., Assistant in Horticulture.
- WILLIAM WESLEY BURR, B. Sc., Assistant in Soils and Crops, North Platte; Assistant Agriculturalist, Office Dry Land Agriculture, U. S. Department of Agriculture.
- JAMES COWAN, M. M. E., Superintendent Experimental Substation, Valentine.
- \*FRITZ KNORR, B. Sc., Superintendent Experimental Substation, Mitchell.
- SENATOR WILLIS PERIN, Farm Superintendent.
- ERWIN HOPT, B. Sc., Assistant in Agronomy (Crops).
- \*LOUISE M. ALLEN, A. M., Scientific Assistant, Seed Testing.

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\*Detailed by the United States Department of Agriculture.

**THE CENTRAL EXPERIMENT STATION**

The Nebraska Agricultural Experiment Station, carried as a department of the College of Agriculture of the University of Nebraska, is maintained from funds appropriated by Congress, supplemented by state appropriations. Under the provisions of the Hatch Bill, each state and territory that had established an agricultural college under the land grant act of 1862 was offered funds to establish, in connection therewith, an agricultural experiment station. Nebraska assented to the conditions and was one of the states to receive immediate benefits from the act.

The work contemplated by the law providing for these experiment stations is set forth as follows in section 2 of the act establishing the station:

**SECTION 2.** That it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under the varying series of crops; the capacity of new trees or plants for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states and territories.

On March 16, 1906, an act known as the Adams act became effective, granting increased support to the Experiment Station for purely technical investigations along the lines mentioned in the Hatch act under which the Experiment Station was established, and since the acceptance of this fund the Experiment Station has been conducting these technical lines of investigation in accordance with the act.

The central experiment station is located at the University Farm, except the Finance Office, which is located at the University campus. The farm comprises a tract of 320 acres located three miles east of the University, having street car connections. About one hundred acres is now laid off in experiment plats for field crops, fruits, and vegetables. The animals used for experiment are in a measure furnished from the herds of cattle, sheep and hogs used for instructional purposes. The offices of the Director and

of the departments of Animal Husbandsry and Agricultural Botany, the laboratories for investigation in Agricultural Botany and the Agricultural Library, are in Agricultural Hall. The offices of the departments of Experimental Agronomy and of Instructional Agronomy and Farm Managment, also of Agricultural Chemistry and Entomology, and the laboratories for investigation in these lines are in Experiment Station Hall. The Departments of Horticulture, Dairy Husbandry and Animal Pathology have separate buildings.

#### THE EXPERIMENTAL SUBSTATIONS

**North Platte Substation.** The Experimental Substation provided for by the Legislature of 1903 is located in Lincoln County, three miles south of North Platte, on a tract of 1,920 acres. This farm contains 270 acres of bench land with an elevation of about 2,800 feet. About 140 acres of this farm is level table-land with an elevation of 3,000 feet, the balance of the farm being rough canyon and table-land devoted to pasture. The experiments in crop and animal production upon this farm are comparable with nearly all the crop production and animal industry of central Nebraska. Experiments in crop production are conducted entirely without irrigation. Bulletins are published from time to time through the central experiment station.

**Valentine Substation (the Sand Hills Station).**—The Legislature of 1909 provided for an additional substation west of the second guide meridian and north of the sixth standard parallel. This station was located by the Regents, after due consideration, at Valentine, Nebraska, upon a portion of the Military Reservation adjoining the town to the southeast, a permanent lease being secured from the War Department to section 32, the west half of section 33, and that part of the southeast quarter of section 33 lying northwest of the Niobrara river,—all in township 24 north, range 27 west, in Cherry County, Nebraska. Upon request to the citizens of Valentine, a deed was given to the Regents for the University to 40 acres of land lying immediately west of section 32, being the northeast quarter of the southeast quarter of section 31, township 24 north, range 27 west, in Cherry County, Nebraska. A Superintendent's house and a barn have been erected upon the deeded land, the entire tract has been fenced, and preparations have been made to begin active experimental work in the spring of 1911.

**The Scotts Bluff Substation.** The Legislature of 1909 also provided for an appropriation to be used in co-operation with the United States Department of Agriculture to study irrigation methods and crop production in the North Platte Valley. 160 acres of land located on the southeast quarter of section 21, township 23 north, range 57 west, was selected for this

purpose and was withdrawn from entry by the Reclamation Service and assigned to the use of the United States Department of Agriculture and the Nebraska Experiment Station for the purposes above named. Experimental work in crop rotations, the application of water to the land, and other questions relative to the development of agriculture in the North Platte Valley are in progress. Work in dry land agriculture is also being studied on land which does not receive irrigation water.

### EXPERIMENT STATION BULLETINS

Each year, the Station publishes at least four bulletins. These contain the results of investigations in subjects pertaining to agriculture. Many of these bulletins cover lines of technical investigation upon scientific subjects relating to agriculture. The reports of investigation at all substations are published through the central station. The edition of each bulletin varies from 8,000 or 10,000 in technical bulletins and from 25,000 to 30,000 or more in regular bulletins. An Annual Report of 5,000 copies is published, containing a summary of the work of the year, and experimental results of interest to investigators. The publications of the Station since those reported in the last calendar are as follows:

Bulletin No. 115, The Determination of Humus. By F. J. Alway, E. K. Files, and R. M. Pinkney. Distributed June, 1910. 5,000 copies.

Bulletin No. 116, Economical Beef Production. By H. R. Smith. Distributed December 15, 1910. 32,000 copies.

Bulletin No. 117 (Substation Bulletin No. 6), Growing Feeder Steers in Western Nebraska. By W. P. Snyder. Distributed January +, 1911. 32,000 copies.

Bulletin No. 118 (Substation Bulletin No. 7), Crop Production in Western Nebraska. By W. P. Snyder and W. W. Burr. Distributed +, 1911. 40,000 copies.

Bulletin No. 119.

Press Bulletin No. 32. Testing Seed Corn. By E. G. Montgomery and C. W. Pugsley. Distributed March 8, 1910. 105,000 copies.

Press Bulletin No. 33. Construction and Use of the Road Drag. By L. W. Chase. Distributed May 19, 1910. 50,000 copies.

Twenty-Fourth Annual Report. Presented to the Governor February 1, 1911.

The Experiment Station desires to assist the farmers of the state in solving many of the difficult and perplexing problems that affect our agricultural production, and to this end is carrying on investigations along lines that aid the practical farmer. The cooperation of all who are interested in the improvement of agricultural practice is invited.

# The College of Law

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OFFICERS OF ADMINISTRATION AND INSTRUCTION

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SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

\*PHILIP JOHN HARRISON, A. B., Registrar and University Publisher.

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WILLIAM GRANGER HASTINGS, A. B., Dean of the College of Law  
and Professor of Law. University Hall 310.

HENRY H. WILSON, A. M., LL. M., Professor of Law. University Hall  
308.

EDWIN MAXEY, Ph. M., D. C. L., Professor of Public Law and Diplomacy.  
University Hall 308.

ERNEST BANCROFT CONANT, A. B. LL. B., Professor of Law. Uni-  
versity Hall 308.

CHARLES AUGUSTUS ROBBINS, Ph. M., LL. B., Professor of Law.  
University Hall 310A.

JOHN JAMES LEDWITH, B. Sc., LL. B., Adjunct Professor of Law.  
University Hall 310A.

ADDISON ERWIN SHELDON, A. M., Director of the Legislative Refer-  
ence Bureau; Instructor in Contemporary Legislation. State House.

GEORGE LOUIS DeLACY, LL. B., Instructor of Law. University  
Hall 310A.

SAMUEL JOHNSON TUTTLE, A. M., LL. B., Ex-Judge of the District  
Court, Instructor in Real Property, Lecturer on Land Titles Mutual  
Life Building

ADDISON SEABURY TIBBETTS, B. C. E., Ex-Judge of the District  
Court; Lecturer on Professional Ethics. Richards Block.

CLAUDE COPLEY FLANSBURG, Lecturer on Advocacy. Funk Build-  
ing

WALLACE RUTHERFORD LANE, LL. B., Lecturer on Patent, Copy-  
right and Trade Mark Law. Des Moines, Ia.

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\*Resigned.

### THE COLLEGE OF LAW

As a place for study, the modern law school has great superiority over the law office. Experience has shown that in the large majority of cases the preparation of those who study in law offices is very imperfect, both as to the work accomplished and as to the methods employed. Among law schools, moreover, those which form part of a university community offer many advantages in the way of free lecture courses, opportunities for pursuing kindred studies, general library facilities, students' societies and clubs not to be had in an independent law school or in a university law department which is located apart from the university's other schools and colleges. The College of Law of the University of Nebraska is a modern law school in the center of a large and growing university community.

### COURSES AND DEGREES

**Three-Year Course.** Three years of undergraduate work in the College of Law and one preliminary year of academic study are necessary for the degree of Bachelor of Law.

**Six-Year Combined Academic and Law Course.** Fourth-year students in the College of Arts and Sciences may elect courses in the department of Jurisprudence and Public Law which count towards the degree of Bachelor of Laws, and not to exceed twelve hours a week each semester of the first-year studies in the College of Law. These subjects count towards the degree of Bachelor of Arts or of Bachelor of Science. By this arrangement, a student is enabled to complete a combined course of study in six years and receive the two degrees. The student expecting to take this combined course of six years must declare his intention before taking his first degree and must pay the regular fees of the College of Law.

### ADMISSION TO THE COLLEGE OF LAW

No distinction among students is made on account of sex or place of residence.

**Entrance Credits.** By enactment of the Nebraska Legislature, no person may be admitted to the bar without "a preliminary education, other than legal, equivalent to that involved in the completion of the first three years of a high school course accredited by the state department of public instruction." The preliminary educational requirements for admission to the College of Law are much higher. To enter the first-year class in this college each candidate must present entrance "credits" for high

school work equal to 30 "points" or a total of 150 recitation hours\* and, in addition, one year of college work. Conditional admission is permitted on a minimum of 24 credit points or 120 recitation hours and one preliminary year of academic study. A student admitted conditionally must remove the conditions at the earliest possible opportunity; the degree will not be granted until such conditions are removed. Persons at least 21 years of age, unable to meet the entrance requirements may be admitted as special students, not candidates for the degree. Upon fulfilling the entrance requirements, such special students may register as regular students, and become candidates for the degree. Persons presenting diplomas or certificates from recognized universities and colleges in good standing or from accredited high schools, normal schools, and academies, are admitted without examination, to whatever standing their credentials entitle them. The requirements for entrance on certificate, on examination or partly on certificate and partly on examination, are as given below. The time element indicated with each subject is essential.

**Required Subjects (17 points).** Of the 30 points required for admission, 17 must be presented from the following subjects in the amount indicated:

Algebra (simultaneous quadratics through logarithms) 1½ years, 5 hours a week.....	3
Geometry (plane), 1 year, 5 hours a week.....	2
†History (European), 1 year, 5 hours a week.....	2
†English (composition and literature), 2 years, 5 hours a week.....	4
†Language (ancient, modern), 3 years, 5 hours a week.....	6

**Optional Subjects (13 points).** In addition to the above required subjects, applicants for admission must present evidence of preparation in work equal to 13 credit points to be chosen from the following optional list:

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\*A "credit point" means the work in a high-school subject of five recitations a week, of not less than 40 minutes each, during a period of at least 18 weeks. In laboratory courses, it means three recitations a week, plus two double periods of laboratory work under the supervision of an instructor.

†In preparing for entrance to the College of Law, students are urged to give their time chiefly to Latin, History, and English, since these subjects are found to be of especial value. In no case will a candidate be admitted to the College of Law whose written composition is deficient in grammar, spelling, punctuation, and paragraphing.

For entrance to the College of Arts and Sciences (six-year Law course), four of the six points required must be in Latin. Students from specially approved accredited schools may offer German or French to meet the six points.

Agriculture, $\frac{1}{2}$ year, 5 hours a week.....	1
*English, 1 year, 5 hours a week .....	2
Language (ancient, modern), 1 to 4 years, 5 hours a week.....	2 to 8
Geometry (solid), $\frac{1}{2}$ year, 5 hours a week.....	1
*History, 1 or 2 years, 5 hours a week.....	1 to 4
Natural science (botany, zoology), 1 year, 5 hours a week, each. .	1 or 2
Physical Geography, $\frac{1}{2}$ year, 5 hours a week.. .	1
Physical science (chemistry, physics), 1 year. 5 hours a week, each..	1 or 2
Trigonometry (plane), $\frac{1}{2}$ year, 5 hours a week.....	1
Other subjects taught in an approved manner in an accredited secondary school, (one point each).....	6

**Advanced Standing.** A credit hour is given for a subject carried one hour a week for a semester. Thus, "Contracts" counts six credits, "Torts" four credits, etc. Applicants possessing the required preliminary education are admitted to advanced standing as follows:

To the Second-year Class.—(1) Any person at least nineteen years of age who has attended for one year another law school having an approved course equivalent to the first year course in this College and who upon examination obtains at least twenty-four credits. (2) Any person who has received the bachelor's degree from one of the general colleges of the University and has completed work in the College of Law equal to at least twenty-four credits.

To the Third-year Class.—Any person at least twenty years of age, who has attended for two years an approved law school, and who upon examination obtains a total of at least fifty credits. The degree of Bachelor of Laws is not conferred on persons who have not attended approved law schools three years, including at least full attendance for the last year at this College.

To Advanced Credit in General.—At the discretion of the Dean of the College of Law, credit may be given without examination for work satisfactorily completed at other approved law schools offering courses equal to those given in this school, but in no case will credit be given except upon presentation of a certificate for work in residence at an approved law school. A student who has been allowed credit in any course, and who fails on any of the examinations which he has been required to take in

\*Two additional points are granted to certain schools named by the Committee on Accredited Schools.

other courses for which he has not been allowed credit, may be required to take any or all of the work for which credits have been allowed. Students who apply for advanced standing on examination are charged an examination fee of \$10.

**Adult Special Students.** Persons of suitable preliminary training, not candidates for a degree, may be admitted at any time, without examination upon payment of the required fees. They must first make application to the Registrar as in the case of regular students. Persons preparing for the state bar examinations and business men not intending to practice law as a profession are admitted as such special students. The same diligence, industry, punctuality and proficiency are required of special students as of candidates for the degree. Students are not permitted to abuse this privilege of special registration by making it a means of securing merely nominal membership in the University, whether for social or athletic purposes or for any other reason.

**Registration.** Registration in the College of Law takes place on the first five days of each semester, from 9 a. m. Tuesday to 5 p. m. Saturday. To promote prompt registration, a special fee of \$3 is charged a student who, unless excused by the Chancellor, for any reason seeks to register later than the regular days set aside for this purpose. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5 and no student is permitted to change from one college to another without written permission to the Registrar from the Dean of each college concerned. Students may not attend classes for which they are not registered, and credit is not given for studies pursued without registration. Any change in a student's residence must be reported immediately to the Registrar. When a student in good and honorable standing finds it necessary to withdraw from the University before the close of the semester, the Registrar grants him, upon application, permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

**Student Adviser.** The Dean of the College is the student's adviser. He has daily consultation hours when students may call seeking advice and encouragement in their work. Leave of absence for a brief period is granted a student by the Dean. This leave is merely a justification for the absence and is not an excuse from any work.

### FEES AND EXPENSES

**Fees** must be paid upon registration, to the Secretary. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. No extra fees are charged to students from other states. No student may enroll in classes or take any private examination until his fees are paid. The schedule of fees in the College of Law is as follows:

Matriculation fee (payable only on first registration) . . . . .	\$5
Library fee, each semester . . . . .	1
Incidental, (6-year combined course) each semester . . . . .	3
Diploma fee . . . . .	5
Diploma fee, <i>in absentia</i> , additional . . . . .	10

**Tuition fees:**

Annual tuition, payable \$25 for the first semester and \$20 for the second semester. . . . .	45
For one semester only . . . . .	25
Special students, for one topic, each semester . . . . .	12

**Examination fees:**

For advanced standing . . . . .	10
For all who require special examination . . . . .	2

**Expenses.** The cost of table board to students in Lincoln ranges from \$3.00 to \$5 a week. The cost of lodging ranges from \$2.50 to \$10 a month, the usual cost being from \$4 to \$5 where two students occupy the same room. The usual cost of combined board and lodging is from \$18 to \$20. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the College do not, however, undertake to find employment for students. The Registrar's Office, in connection with the Young Men's Christian Association of the University, maintains an employment bureau.

### REQUIREMENTS FOR GRADUATION

Regular students who have completed the course of instruction to the satisfaction of the faculty of the College of Law and the Board of Regents of the University receive the degree of Bachelor of Laws. Students whose time and means do not permit them to complete the course receive certificates of proficiency according to the merit and extent of their work.

**ADMISSION TO THE BAR**

Under the statutes of Nebraska, admission to the bar is to be had in the Supreme Court only, and is governed by rules established by that Court. The statutes now provide as follows: "No person shall be admitted to the bar unless such person is at least twenty-one years of age and of good moral character, and unless such person either (1) has had a preliminary education, other than legal, equivalent to that involved in the completion of the first three years of a high-school course accredited by the State Department of Public Instruction, and has regularly and attentively studied law in a reputable law school or in the office of a practicing attorney, or partly in such school and partly in such office, for a period of at least three years, at least one year of which office study shall have been passed in a law office in this state, and shall pass a satisfactory examination upon the principles of the common law, equity, criminal law, statutes and practice of this state; or (2) is a regular graduate of the College of Law of the University of Nebraska, or of such other college of law of this state having entrance requirements and a course of study equal to and equivalent to those of the law school of the University of Nebraska as the Supreme Court shall, upon application and showing, designate as a College of Law whose graduates shall be entitled to admission without examination; Provided, that such other College of Law shall be a member of the Association of American Law Schools. Provision shall be made by rule of court for the registration of students in law offices in this state at the beginning of their respective terms of study in the office of the clerk of the Supreme Court or the office of the clerk of the District Court in the county in which any such law office is located." The College of Law of this University is a member of the Association of American Law Schools and graduates of the College of Law are admitted to practice in Nebraska on motion without examination other than that sustained prior to graduation.

**COURSE OF INSTRUCTION**

The course of instruction in the College of Law extends through three years of thirty-six weeks each exclusive of vacations. The design of the course is two-fold; (1) To afford the training in the fundamental principles of the common law essential to the practice of the profession in any jurisdiction where that system obtains. (2) To acquaint the student with the special subjects of immediate or local importance in Nebraska and neighboring states and to instruct him thoroughly in the peculiarities of substantive law and procedure in those jurisdictions, so as to enable him to enter upon the practice understandingly at once, without any further term of practical instruction in an office. In addition, bearing in mind the extent to which the legislative and executive departments are recruited from the bar, and the part which the profession must take in legislation of all kinds, as well as in the progress and reform of the law, it is designed to stimulate an intelligent and enduring interest in the history and science of law, in order to make not merely practitioners, but lawyers in the fullest sense. With the additional requirement of one year of college work by way of preparation it is hoped that the student may be saved from what seems the most besetting error in regard to law and society, a wholly mechanical conception of them and of possible changes in them. The following program of study is made with these ends in view:

**REQUIRED COURSES****FIRST YEAR—FIRST SEMESTER**

**Common-Law Pleading**—Ames' Cases on Pleading. Two hours attendance. Two hours credit. Professor Conant

**Contracts**—Williston's Cases on Contracts. Three hours attendance. Three hours credit. Professor Robbins

**Criminal Law and Procedure**—Mikell's Cases on Criminal Law; the Nebraska Criminal Code. Three hours attendance. Three hours credit. Professor Maxey

**History and System of the Common Law**—A general survey of the legal system of English-speaking countries; courts, their organization and jurisdiction. Selected cases: Blackstone's Commentaries, Book III; Street's Foundations of Legal Liability, vol. 3. Two hours attendance. Two hours credit. Professor Hastings

**Property I**—Bray's Cases on Property, vol. 1; Kirchwey's Readings on the Law of Real Property. Two hours attendance. Two hours credit. Professor Conant

**Torts**—Ames & Smith's Cases on Torts, vol. 2. Two hours attendance.  
Two hours credit. Professor Wilson

## FIRST YEAR—SECOND SEMESTER

**Agency**—Huffcutt's Cases on Agency. Two hours attendance. Two  
hours credit. Professor Robbins

**Common Law Pleading** (Concluded)—One hour attendance. One hour  
credit. Professor Conant

**Contracts** (Concluded)—Three hours attendance. Three hours credit.  
Professor Robbins

**Domestic Relations**—Woodruff's Cases on Domestic Relations. One  
hour attendance. One hour credit. Professor Hastings

**Equity Jurisdiction I**—Keener's Cases on Equity Jurisdiction, vol. 1.  
Two hours attendance. Two hours credit. Professor Hastings

**Practice in Justices' Courts**—Selected cases; Cobbey's Student's Code  
of Nebraska. One hour attendance. One hour credit. Adjunct Professor Ledwith

**Property I** (Concluded)—Gray's Cases on Property, vol. 2. Two hours  
attendance. Two hours credit. Professor Conant

**Torts** (Concluded)—Ames & Smith's Cases on Torts, vol. 1. Two hours  
attendance. Two hours credit. Professor Wilson

## SECOND YEAR—FIRST SEMESTER

**Bills and Notes**—Smith & Moore's Cases on Bills and Notes. Three  
hours attendance. Three hours credit. Professor Robbins

**Code Pleading**—Selected cases. Three hours attendance. Three hours  
credit. Adjunct Professor Ledwith

**Equity Jurisdiction II**—Keener's Cases on Equity Jurisdiction, vols. 2  
and 3. Three hours attendance. Three hours credit. Professor Hastings

**Equity Pleading**—Thompson's Cases on Equity Pleading. One hour  
attendance. One hour credit. Professor Conant

**Evidence**—Thayer's Cases on Evidence. Two hours attendance. Two  
hours credit. Professor Wilson

**Wills and Administration**—Gray's Cases on Property, vol. 4. Two hours  
attendance. Two hours credit. Professor Robbins

## SEOND YEAR—SECOND SEMESTER

**Code Practice**—Bringing an action; provisional remedies; *Nisi prius*;  
judgment, execution, appellate procedure. Pound's Cases on Practice;  
Cobbey's Student's Code of Nebraska. Wheeler's Compiled Statutes,  
Codes. Three hours attendance. Three hours credit.

Professor Hastings

<b>Damages</b> —Beale's Cases on Damages.	One hour attendance.	One hour credit.	Professor Conant
<b>Evidence</b> (Concluded)—	Two hours attendance.	Two hours credit.	Professor Wilson
<b>Wills and Administration</b> —	Two hours attendance.	Two hours credit.	Professor Robbins
<b>Quasi-Contracts</b> —Scott's Cases on Quasi-Contracts.	Three hours attendance.	Three hours credit.	Professor Robbins
<b>Trusts</b> —Ames' Cases on Trusts.	Three hours attendance.	Three hours credit.	Professor Conant

## THIRD YEAR—FIRST SEMESTER

<b>Constitutional Law</b> —Thayer's Cases on Constitutional Law, vol. 1.			
Three hours attendance.	Three hours credit.	Professor Hastings	
<b>Federal Procedure</b> —Selected cases.	One hour attendance.	One hour credit.	Professor Wilson
<b>Insurance</b> —Selected cases.	One hour attendance.	One hour credit.	Professor Robbins
<b>Partnership</b> —Burdick's Cases on Partnership.	Two hours attendance.		
Two hours credit.		Professor Conant	
<b>Private Corporations</b> —Smith's Cases on Private Corporations.	Two hours attendance.		
Two hours credit.		Professor Conant	
<b>Property III</b> —Gray's Cases on Property, vol. 5.	Three hours attendance.		
Three hours credit.		Judge Tuttle	
<b>Mortgages</b> —Kirchwey's Cases on Mortgages.	Two hours attendance.		
Two hours credit.		Professor Hastings	

## THIRD YEAR—SECOND SEMESTER

<b>Constitutional Law</b> (Concluded)—Thayer's Cases on Constitutional Law, vol. 2.	Three hours attendance.	Three hours credit.	Professor Hastings
<b>Public Service Companies</b> —Beale and Wyman's Cases on Public Service Companies.	Two hours attendance.	Two hours credit.	Professor Maxey
<b>Municipal Corporations</b> —Smith's Cases on Municipal Corporations.	One hour attendance.	One hour credit.	Professor Conant
<b>Private Corporations</b> (Concluded)—	Two hours attendance.	Two hours credit.	Professor Maxey
<b>Property III</b> (Concluded)—Gray's Cases on Property, vol. 6.	Two hours attendance.	Two hours credit.	Judge Tuttle
<b>Sales</b> —Burdick's Cases on Sales.	Two hours attendance.	Two hours credit.	Professor Robbins

**Suretyship and Guaranty**—Wilson's Cases on Suretyship and Guaranty.  
One hour attendance. One hour credit. Professor Wilson

### ELECTIVES

At least eight hours of work in the elective courses must be presented for the degree.

OPEN TO SECOND-YEAR AND THIRD-YEAR STUDENTS AND, UPON CONSENT  
OF THE DEAN, TO FIRST-YEAR STUDENTS

**Administrative Law I (PUBLIC LAW 3)**—Public officers; extraordinary legal remedies. Goodnow's Cases on the Law of Officers. First semester. Two hours attendance. Two hours credit. Professor Maxey

**Administrative Law II (PUBLIC LAW 4)**—Taxation. Goodnow's Cases on Taxation. Second semester. Two hours attendance. Two hours credit. Professor Maxey

**Analytical and Historical Jurisprudence (JURISPRUDENCE 3)**—Second semester. Three hours attendance. Three hours credit.  
(Given 1911-1912.) Professor Maxey

**International Law I (PUBLIC LAW 6)**—Maxey's International Law. First semester. Three hours attendance. Three hours credit. Professor Maxey

**International Law II (PUBLIC LAW 7)**—Advanced Course, Second semester. Two hours attendance. Two hours credit to students who do not present International Law I. Professor Maxey

**Admiralty Law**—Ames' cases. Two hours attendance. Two hours credit. Second semester. Professor Maxey

**Roman Law (JURISPRUDENCE 2)**—History and Institutes. First semester. Two hours attendance. Two hours credit. Not yet assigned  
Given in 1912-1913 and alternate years.)

OPEN TO SECOND-YEAR AND THIRD-YEAR STUDENTS ONLY

**Bankruptcy**—Williston's Cases on Bankruptcy. First semester. Two hours attendance. Two hours credit. Professor Robbins

**Conflict of Laws**—Beale's Cases on the Conflict of Laws. Minor's Conflict of Laws Sesond semester. Two hours attendance. Two hours credit. Professor Hastings

**Irrigation Law**—Selected cases. First semester. One hour attendance. One hour credit. Professor Conant

(Given in 1911-12 and alternate years.)

**Mining Law**—Selected cases; Costigan's American Mining Law. First semester. Two hours attendance. Two hours credit. Professor \_\_\_\_\_

(This course will be given in 1911-1912 and alternate years. For the

benefit of the students in this course, Professor Condra, of the department of Geography and Economic Geology, will give two illustrated lectures on the origin of ores and ore deposits, mining, prospecting and mining operations.) (Arrangements for other special lectures not completed.)

OPEN TO THIRD-YEAR STUDENTS ONLY

**Conveyancing**—Practical exercises in conveyancing, examining abstracts of title, and drafting papers, under the personal supervision of the instructor. Pound's Exercises in Conveyancing. Second semester. Two hours attendance. Two hours credit. Adjunct Professor Ledwith

EXTRA COURSES (NO CREDIT)

**Bar Examination Review**—A general review of the more important topics of the law, based upon questions used at bar examinations Open to third-year students only. Second semester. Hours to be arranged.

Professors Robbins, Hastings, Maxey, Conant

**Business Law**—A course in business law with special reference to the needs of engineers. Credited in the engineering departments, but not in the College of Law. Open to all College of Law students. Second semester. Two hours attendance. Professor Conant

PRACTICE AND PRACTICE COURTS

In addition to the courses in practice, in which instruction is given in the principles and general rules of procedure in state and federal courts, practice courts are maintained in order to afford the student an opportunity of acquainting himself with the various steps in an orderly litigation, and of learning by actual experience to determine what proceedings to bring, how to bring them, and how to conduct causes to a final determination. The work in these courts is required. Every effort is made to reproduce the conditions of actual practice. First year students serve as parties, witnesses and jurors. Second year students serve as justices of the peace, constables, sheriffs, clerks of the courts of record and practicing attorneys. Third year students serve as county attorneys and in some cases as judges of the various courts of record and practicing attorneys. Three members of the faculty serve as judges at the sessions of the county and district moot courts which are held each Friday afternoon.

The parties and witnesses are advised of the facts of the controversy by the instructor, and the student who acts as counsel discovers the matter at issue and the testimony he may adduce in support of his contentions by consultation with the party for whom he appears and his witnesses. He then determines the form of action or proceeding, sues out and returns process, prepares pleadings and takes all steps required to bring the cause

to trial. The trial is attended by an instructor, who gives personal instruction in trial procedure, preparation of instructions, verdicts, and journal entries, making motions for new trial or in arrest of judgment, settlement of bills of exceptions, supersedases, and procedure on appeal.

Each student is required during the second year to try at least one case in an inferior court, and to take it by appeal to the district court. In the third year each student is required to take part in at least two causes, one at law and one in equity, in the district court, and on appeal in the supreme court. A county court is also provided to furnish practice in the probating of wills and the administration of estates.

Further practical exercises in drawing the proper papers or instruments to meet the facts of hypothetical cases are provided in the courses in pleading, in practice, and in conveyancing. The student is never allowed to lose sight of the fact that he is being fitted to practice his chosen profession.

#### COLLEGE OF LAW LECTURE COURSE

A course of lectures by prominent members of the bench and bar has been provided. The lectures are upon practical topics from the standpoint of the practitioner, and, among other subjects, will deal with patent, copyright and trademark law, the preparation of causes for trial, the presentation of causes to court or jury, the examination of witnesses and other branches of advocacy, land titles, professional ethics, commercial business, collections and adjustments, the organization and management of business corporations, office economy and the selection of a library.

#### METHOD OF INSTRUCTION

The College of Law follows in the main the "Case" or "Source" method of teaching law. Instead of studying text-books upon which to recite, the students summarize, and prepare to expound and to comment upon in class, the important cases to which the text writers themselves must go for the law. This resort to the sources is made under the guidance of experienced instructors who supplement the class discussion of the cases with such information as the students require to enable them to understand the cases and the topics to which the cases relate. Students are often advised, and sometimes required, to read particular text-books, to supplement the work in the cases, and whenever there is occasion to do so the instructors lecture on particular legal problems. The great aim of the class work is to increase the student's accuracy of legal perception, his ability to analyze cases and extract the right principles from them, and his power to apply those principles to such more or less complicated facts as normally arise in legal practice; and especially to get an accurate acquaintance with legal relations as underlying legal rules.

### LIBRARIES

Students in the College of Law have access to various libraries, aggregating 222,874 volumes.

The College of Law library, which contains over 6,500 volumes of standard reference and text-books on the common law and of American and English law reports, is a branch of the University Library.

The University Library of 95,000 volumes includes the standard authorities and works of reference on international law, Roman law, jurisprudence and public law.

The State Library of 65,000 volumes at the Capitol is one of the best law libraries in the West, containing the law reports and statutes of all English-speaking jurisdictions.

The Lincoln City Library contains 28,574 volumes.

The Nebraska State Historical Society Library contains 34,300 volumes.

### PRIZES AND HONORS

**Excellence in First-Year Studies.** (1) For the three members of the first-year class who obtain the highest rank in the studies of the first semester, Dr. Roscoe Pound, formerly Dean of the College of Law, offers prizes—books to be selected by the donor. In 1909-1910, those who received scholarship prizes were Anthony Z. Donato, Arthur J. Ludden, and Thomas G. Andrews. The prizes were Holdsworth's History of English Law, Anglo-American Legal Essays and Tucker's Constitution of the United States. (2) For the member of the first-year class whose scholarship in the second semester displays the most marked improvement over that in the first semester, and who attains a grade of "E" in all his second-semester studies, Dr. Roscoe Pound also offers a prize—a book or books to be selected by the donor. No award in 1910.

**Edward Thompson Company Prize.** For the best thesis by a member of the third-year class the Edward Thompson Company of Northport, New York, offers The American and English Encyclopedia of Law or The Encyclopedia of Pleading and Practice. The thesis, which must be submitted to the Dean not later than the third Monday in May, must contain not less than 2,000 nor more than 4,000 words, must be satisfactory to the examining committee as to matter and style, and must be printed or typewritten on paper of uniform size and quality. No award for 1909-10.

**Legal Bibliography Prize.** To promote a practical knowledge of legal bibliography, the Dean of the College offers a prize, open to all students—any standard legal treatise, to be selected by the winner. This prize is awarded upon an examination held in the law library at the beginning of

the second semester. The examination is both oral and written, embracing the principal reports, American and English, standard abbreviations and modes of citation, standard text-books, search for cases in the reports, identification of cases imperfectly cited, and use of digests. No award for 1909-1910.

**Oratory.** The College of Law offers a first prize of \$35 and a second prize of \$15 for the best orations to be written and delivered by the regular students of the College of Law and the College of Medicine and by regular undergraduate students who have attained junior standing in the College of Arts and Sciences. The rules and regulations governing the oratorical contest are framed by the faculty of the College of Law. It is expected that the contest will occur sometime in April. In 1909-1910 the first prize was awarded to Thomas James McDaniel and the second to Louis J. Knoll.

**William Jennings Bryan Prize.** For the best essay on the science of government is offered annually the income of \$250, the gift of Hon. William Jennings Bryan.

**Theta Kappa Nu.** The Theta Kappa Nu, the law scholarship fraternity, the Nebraska chapter of which was established in 1904, elect not less than one-tenth nor more than one-sixth of the graduating class, solely on the basis of scholarship as shown by grades attained in the required law work for the entire course.

#### ADVANTAGES AND PRIVILEGES

**Courts.** The College of Law occupies rooms in the University Hall within a few blocks of the law offices and courts. The Supreme Court, the District Court (in three divisions), the County Court and various minor courts are almost constantly in session during the school year. In addition to the various State Courts, the Circuit and District Courts of the United States for the District of Nebraska hold two terms in Lincoln each year. Exceptional facilities are thus afforded the student to hear the arguments of able counsel and to become acquainted with the workings of courts.

**Legislature.** The student has the opportunity each alternate year of attending the session of the Nebraska Legislature, where he may observe the process and forms of legislation. The course in legislation, given as a College of Law elective, brings students who take it in close touch with the work of the legislature.

**General College Privileges.** A student in the College of Law may, without paying additional fees, register for not more than five hours of work in the College of Arts and Sciences. Credit in the general colleges is not applied toward the degrees of those colleges, however, unless the

matriculation and other fees of those colleges are regularly paid. Students taking advantage of this rule may not change their registration in the general college or drop any of the subjects registered for therein without paying the re-registration fee of \$3. Subjects peculiarly suitable to law students are American history, argumentation, comparative government, constitutional history, debate, diplomacy, English institutional history, ethics, political economy, political history, political science, public speaking, and sociology.

**Gymnasium.** The gymnasium is open to students of the College of Law. It is in charge of experts in physical training, who advise each student as to the character and amount of physical exercise adapted to his case.



# The College of Medicine

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OFFICERS OF ADMINISTRATION AND INSTRUCTION  
IN LINCOLN

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SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

\*PHILIP JOHN HARRISON, A. B., Registrar and University Publisher.

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ROBERT HENRY WOLCOTT, A. M., M. D., Acting Dean of the College of Medicine.

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.

BENTON DALES, Ph. D., Professor of Chemistry, in charge of the Department of Chemistry.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.

RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Pharmacology and Director of the School of Pharmacy.

WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.

CHARLES WILLIAM McCORKLE POYNTER, B. Sc., M. D., Professor of Human Anatomy.

FRANKLIN DAVIS BARKER, Ph. D., Associate Professor of Zoology.

HIRAM WINNETT ORR, M. D., Assistant Professor of the History of Medicine.

MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry.

GEORGE HEMAN WALKER, M. D., Adjunct Professor of Anatomy.

JAMES F. STEVENS, A. M., M. D., Adjunct Professor in Charge of Materia Medica.

LAWRENCE B. PILSBURY, A. B., M. D., Adjunct Professor of Bacteriology and Pathology.

HENRY JOHN LEHNHOFF, A. B., M. D., Instructor in Surgery.

\*CLARENCE EMERSON, Ph. D., Instructor in Bacteriology and Pathology.

HENRY PETER WEKESER, M. D., Demonstrator in Anatomy.

DAVID CLARK HILTON, A. M., M. D., Instructor in Anatomy.

J. STANLEY WELCH, A. B., M. D., Instructor in Physical Diagnosis.

EDWARD WINFIELD ROWE, B. Sc., M. D., Instructor in Materia Medica.

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\*Resigned.

IRVING SAMUEL CUTTER, B. Sc., M. D., Instructor in Chemistry.  
WALTER LEONARD ALBIN, M. D., Instructor in Pathology.  
JOHN JACOB PUTNAM, B. Sc., A. M., Instructor in Bacteriology and  
in Pathology.  
MILTON F. ARNHOLT, A. B., B. Sc., Assistant in Anatomy.  
JOSEPH WILSON LAUGHLIN, B. Sc., Assistant in Anatomy.  
ARTHUR LAWRENCE SMITH, Assistant in Anatomy.  
DONALD BENJAMIN STEENBERG, B. Sc., Assistant in Anatomy.  
EARL GEORGE JOHNSON, A. B., Assistant in Physiology.  
EDGAR MATTHIAS MEDLAR, B. Sc., Scholar in Zoology.  
CLIFFORD WEBB WELLS, Ph. B., Scholar in Histology and Em-  
bryology.

#### Committees of the Faculty in Lincoln

Course of Study—The Dean (chairman), Professors Waite, Dales, Lyman,  
Doctor Pilsbury.  
Publication—Professor Orr (chairman), Professors Guenther, Willard.  
Advanced Standing—Professor Waite (chairman), Professors Willard,  
Stevens, Doctor Lehnhoff, the Dean.  
Schedule of Classes—Professor Dales (chairman), Professor Barker,  
Doctor Rowe, the Registrar.  
Convocation and Review Courses—Professor Lyman (chairman), Professors  
Guenther, Poynter, Doctors Welch and Cutter.

OFFICERS OF ADMINISTRATION AND INSTRUCTION  
IN OMAHA

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WILLSON ORTON BRIDGES, M. D., Associate Dean of the College of Medicine and Professor of the Principles and Practice of Medicine and Clinical Medicine.

HAROLD GIFFORD, B. Sc., M. D., Professor of Ophthalmology and Otology.

RICHARD CHANNING MOORE, M. D., Professor of Diseases of the Mind

WILLIAM FORSYTH M LROY, M. D., Professor of Clinical Medicine and Physical Diagnosis.

AUGUST FREDERICK JONAS, M. D., Professor of the Practice of Surgery and Clinical Surgery.

HARRY MONROE McCLANAHAN, A. M., M. D., Professor of Pediatrics.

BYRON BENNETT DAVIS, A. B., M. D., Professor of the Principles of Surgery and Clinical Surgery.

FRANK STYLES OWEN, M. D., Professor of Laryngology and Rhinology.

ANDREW BARTHOLOMEW SOMERS, M. D., Professor of Obstetrics.

SOLON RODNEY TOWNE, A. M., M. D., Professor of Hygiene and State Medicine.

JOSEPH MELANCHTHON AIKIN, M. D., Clinical Professor of Nervous Diseases.

PALMER FINDLEY, A. M., M. D., Professor of Didactic and Clinical Gynecology.

ALFRED SCHALEK, A. M., M. D., Professor of Dermatology and Genito-Urinary Diseases.

\*LE ROY CRUMMER, M. D., Professor of Therapeutics.

ARTHUR CHARLES STOKES, B. S., M. D., Associate Professor of Genito-Urinary Surgery and Surgical Anatomy.

CHARLES WHITNEY POLLARD, A. B., M. D., Adjunct Professor of Obstetrics.

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\*Resigned.

- BURTON WHITFORD CHRISTIE, B. Sc., M. D., Instructor in Pediatrics.
- ALFRED OLAF PETERSON, A. M., M. D., Instructor in Internal Medicine.
- JAMES SAMUEL GOETZ, M. D., Instructor in Internal Medicine.
- THOMAS TRUELSEN, M. D., Instructor in Physical Diagnosis and Clinical Assistant in Medicine.
- PAUL HAGANS LUDINGTON, A. B., M. D., Instructor in Medicine.
- RODNEY WALDO BLISS, B. Sc., M. D., Instructor in Clinical Pathology and Internal Medicine.
- ROBERT RUSSELL HOLLISTER, A. B., M. D., Instructor in Surgery and Gynecology.
- CHARLES REX KENNEDY, M. D., Instructor in Surgery.
- HENRY BASSETT LEMERE, M. D., Instructor in Ophthalmology and Otology.
- ERNEST TIBBETS MANNING, M. D., Instructor in Therapeutics.
- WILLIAM PENALUNA WHERRY, M. D., Instructor in Laryngology and Rhinology.
- CHARLES CAMPBELL MORISON, A. B., M. D., Instructor in Surgery.
- CHARLES AARON HULL, M. D., Instructor in Surgery.
- JAMES McDOWELL PATTON, A.M., M.D., Instructor in Ophthalmology and Otology.
- ALFRED JEFFERSON, M. D., Instructor in Therapeutics and Clinical Assistant in Gynecology.
- NORA MAY FAIRCHILD, M. D., Clinical Assistant in Gynecology.
- JOHN CLYDE MOORE, JR., B. Sc., M. D., Clinical Assistant in Medicine.
- AUGUSTUS DAVIS CLOYD, M. D., Lecturer on Life Insurance Examinations.
- ALFRED ONIAS HUNT, D. D. S., Lecturer on Dental Surgery.
- GEORGE MOGRIDGE, M. D., Lecturer on Arrested Development, Glenwood, Iowa.
- ERNEST CLIFFORD PAGE, Ph. M., LL. B., Lecturer on Medical Jurisprudence.
- JOHN JOSEPH KLICK, M. D., Assistant in Dermatology.

**DISPENSARY STAFF**

Superintendent of Dispensary—Dr. Bliss.

Internal Medicine—Professors Bridges and Milroy; Assistants, Doctors Bliss and Moore.

Surgery—Professors Jonas and Davis; Assistants, Doctors Blodgett and Petr.

Eye and Ear—Professor Gifford; Assistant, Doctor Patton.

Nose and Throat—Professor Owen; Assistant, Doctor Rubendall.

Pediatrics—Professor McClanahan; Assistant, Doctor Christie.

Obstetrics—Professor Somers; Assistant, Doctor Pollard.

Gynecology—Professor Findley; Assistant, Doctor Fairchild.

Nervous Diseases—Professor Aikin.

Dermatology—Professor Schalek; Assistant, Doctor Klick.

Genito-Urinary Surgery—Associate Professor Stokes.

Drug-Room—James C. Tucker, R. Ph., B. Sc.

**Committees of the Faculty in Omaha**

Students and Examinations—Professors Jonas and Milroy.

Faculty and Catalog—Professors Gifford and Findley.

Clinics and Lectures—Professors Bridges and Owen.

Laboratories and Dispensary—Professors Jonas and Findley.

Finance and Supplies—Professors Owen and Somers.

Employees—Professors Somers and Bridges.

Commencement and Entertainment—Professors Davis and Gifford.

Building, Grounds and Repairs—Professors Milroy and Davis.

### ORGANIZATION OF THE COLLEGE OF MEDICINE

By an agreement entered into in May, 1902, the Omaha Medical College became the College of Medicine of the University of Nebraska. The College thus incorporated into the University was founded in 1880 and had experienced strong and steady growth. As an integral part of the University, and gathering strength from that connection, the College has gone rapidly forward. The requirements for entrance have been raised step by step till now they are on a level with those of the best medical colleges, thus assuring a student body properly prepared for the improved advantages at its disposal.

The work of the first two years is carried on at Lincoln. The University's laboratories, directed by men of thorough training and large experience, who devote their entire time to instruction and with equipment adequate for thorough instruction in the ordinary subjects of the medical course, furnish a preparation which is a substantial basis for the clinical work.

The work of the last two years is done exclusively at the College in Omaha, where are afforded unusual clinical facilities, more than ample for all purposes of undergraduate medical instruction. The State Legislature has appropriated funds with which to purchase a site\* for a clinical campus in Omaha; this has been secured and plans have been drawn and work begun on a clinical teaching equipment which will be, when completed, excelled by that of no college in the country.

### STANDING

The College of Medicine meets the requirements of the most exacting examining authorities. It is in the approved list of all state examining and licensing boards and its diploma grants the holder all privileges accorded to graduates of any medical college in the United States. The class of 1906 was the first to complete its training under University auspices. All members of that class, and also of all subsequent classes, have passed successfully all state board licensing examinations in which they have taken part.

Official notice has been received from the Secretary of the Examining Board in England that the Royal Colleges of Physicians and Surgeons have added the University of Nebraska to the short list of American institutions whose Graduates in Medicine may, on production of the required certificate of study, be admitted to the Final Examination in Medicine, Surgery and Midwifery, which places them on the same basis as graduates of the best English colleges. This recognition is a source of great gratification.

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\*See "Equipment of the University," pages 7-8.

tion to all interested in the College, and is of especial value to those students who are planning to take up work in foreign lands as medical missionaries.

### METHODS OF INSTRUCTION

The course of study in medicine covers four years, there being in each of the first three years, thirty-two weeks of class work and in the senior year thirty, exclusive of all registration and examination days. During the first two years those strictly scientific branches are pursued which form the basis for the clinical studies of the last two. The objective method is followed, not only in the laboratories, but also in the clinical instruction, where constant reference is made to the facts required from laboratory work in the fundamental branches. Emphasis is in all cases placed on individual effort on the part of the student, of whom is required work as independent as is consistent with the further demand that he thoroughly cover the field.

The course embraces also didactic and clinical lectures, in which effort is made by charts, models, experiments, demonstrations and other appropriate means to broaden the mind of the student and to coordinate the facts acquired in laboratory and clinic. Frequent quizzes and examinations test the student's progress in each line of work.

The College affords unique opportunities for the most thorough instruction. The moderate size of the classes insures close contact between student and instructor, which is of the utmost importance in securing an exact knowledge of the fundamental branches. The sectional method of clinical work also brings the individual student in intimate contact with his clinical instructors, affords him an opportunity to study each case thoroughly and at short range, and allows him to secure a very unusual amount of bedside instruction.

**Six-year Combined Course.** In addition to the four-year course leading to the degree of Doctor of Medicine, which now must be preceded by two years of college work, there is offered a combined collegiate and medical course of six years. By the use of the laboratory subjects of the first two years of the medical course as electives in his collegiate course, the student is enabled to receive, at the end of four years, the degree of Bachelor of Science, and at the end of six years that of Doctor of Medicine. This can only be accomplished by taking the course precisely as outlined in later pages of this Announcement. A student registered for the degree of Bachelor of Arts may arrange a similar course by the same use of his electives, but he will probably find it necessary to spend seven years to

meet the requirements for the Bachelor of Arts degree, and to secure, at the same time, the scientific training required for the degree in medicine.

### ADMISSION TO THE COLLEGE OF MEDICINE

**Advanced Entrance Requirements.** January 1, 1908, the standard of entrance to the College of Medicine was raised to include one year of college work, and the results were so satisfactory to both faculty and students that during the past year this standard was further advanced so as to include two full college years. This means that the course of study includes at least six years of work above the four-year high-school course. The first two years are practically those of the six-year combined course, being devoted mainly to German, chemistry, physics, and animal biology. The difference between the two courses is in the fact that all of the work of the two preparatory years not being prescribed, there is latitude of election which will be of advantage to A. B. students and those who come from other colleges and universities and who do not seek a B. Sc. degree here. Two points of some importance should be noted in connection with this extended course. The initial years, if taken at the University of Nebraska, are not subject to the fees of the professional course, but demand only the moderate laboratory fees required of the general scientific student. Secondly, the work may be taken at any college of standard entrance requirements, provided the work includes at least one year of German, chemistry, physics, and animal biology. There are many colleges which cover the introductory work noted in an eminently satisfactory manner, and in such cases the student with proper credentials may enter directly into the first year of professional work in medicine, i. e., of the four-year course.

**Entrance Credits.** For admission to the freshman class of the four-year course in the College of Medicine, a candidate must present evidence of having completed (1) a standard four-year high-school course entitling him to 30 entrance credits or "credit points"\*\* equivalent to those laid down as the minimum requirements of the Association of American Medical Colleges, and (2) two years of college work in this University or some other reputable college or university. For admission to the six-year combined

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\*An entrance credit or "credit point" is given for the work of a class holding five recitations a week, of from 40 to 50 minutes each, for at least 18 weeks. In laboratory courses a credit or "credit point" is given for three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least 18 weeks.

course, the candidate must meet the entrance requirements for the College of Arts and Sciences and in addition present a year's credit in physics. Conditional admission to the preliminary work of the four-year course or the six-year combined course is permitted on a minimum of 24 entrance credits or "credit points"; but all such conditions must be removed before the student may be admitted to full sophomore standing. Women are admitted to the College of Medicine on the same terms as men.

**Required Subjects (17 or 19 points).** Of the 30 "credit points" required for admission to either the preliminary work of the four-year course or the six-year combined course, 17 or 19 points must be presented from the following subjects, the time element indicated with each being essential:

	4-year Course	6-year Combined Course
Algebra, (simultaneous quadratics and logarithms), 1½ years, 5 hours a week.....	3	3
English (rhetoric and literature), 2 years, 5 hours a week..	4	4
Geometry (plane), 1 year, 5 hours a week.....	2	2
History, (European), 1 year, 5 hours a week.....	2	2
Language (Latin two years at least), 3 years, 5 hours a week.....		6*
Language (must be Latin), 2 years, 5 hours a week .....	4	
Physics (with laboratory work), 1 year, 5 hours a week. ....	2	(2)
	17	17 (19)

**Optional Subjects (13 or 11 points).** In addition to these required subjects, for which no substitutes will be accepted, applicants must present 13 or 11 points from the following optional entrance subjects:

Agriculture, ½ year, 5 hours a week.....	1
Geometry (solid), and trigonometry, 1 year, 5 hours a week (each one) .....	2
History, 1 or 2 years, 5 hours a week .....	1 or 2†
English (only if taken after the required English), 1 year, 5 hours a week .....	1 or 2†
Language (ancient, modern), (1 to 5 years to 4-year medicine), 1 to 4 years, 5 hours a week.....	2 to 8

\*The Committee on Accredited Schools may accept German or French to meet the required six points in the case of specially approved accredited schools.

†Two additional points are allowed to certain very strong schools named by the Accredited Schools Committee.

	4-year Course	6-year Combined Course
Botany or Zoology, 1 year, 5 hours a week, each . . . . .	1 or 2	
*Physical Science: Chemistry, 1 year, 5 hours a week . . . . .	1 or 2	
Physics, 1 year, 5 hours a week (with laboratory, 2) . . . . .	1 or 2	
Physical Geography, $\frac{1}{2}$ year, 5 hours a week. . . . .	1	
Other subjects taught in an approved manner in an accredited secondary school (one point each) . . . . .	6	
Total optional points . . . . .	13	13 (11)

**Entrance from "Accredited" Schools.** The University maintains a list of "accredited" high schools and academies whose *graduates* are admitted to any undergraduate college or school of the University without examination in those subjects in which their work is duly certified. A candidate for admission submitting credentials from a non-accredited school must be prepared to take such examinations as may be prescribed. A student desiring to ascertain in advance of the opening of the school year whether or not he may be admitted to the freshman class should apply to the Registrar of the University or the Dean of the College of Medicine for blank credential slips; when these are properly filled out and returned, he will be informed at once whether or not his credentials are acceptable, and what will be required of him. In all cases the entrance credits are passed upon by the Registrar in frequent consultation with the Inspector of Accredited Schools. It is highly desirable that all candidates for admission forward their entrance credentials at least one month in advance. Although properly prepared students who cannot enter at the beginning of the year may be admitted later, all students who can possibly do so are urged to be present at the beginning of the year. Students entering late are at much disadvantage and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session. However, plans are made so that students who enter at the opening of the second semester may arrange a suitable program of work.

**Advanced Standing.** Advanced standing may be granted under the following conditions: (1) Applicants for advanced standing must offer admission credits equal to those required by this college. (2) In ac-

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\*While Chemistry is not among the required entrance points, students will find it of great advantage to have a year of high-school Chemistry for entrance.

cordance with the recommendation of the Association of American Medical Colleges, the College of Medicine does not grant any time credit toward the M. D. degree to holders of a bachelor's degree; this means that the total time spent by each student taking his medical degree must include as a minimum four years of registration in a medical college (3) Students of other medical colleges of equal standing and maintaining the same entrance and course requirements are, on presenting certificates of honorable dismissal, admitted to the class to which such credentials entitle them. Students from medical colleges of less standing and not maintaining the same entrance and course requirements are only admitted to the class into which the subject credit secured entitles them to enter, and are also required to make up all entrance deficiencies. (4) There will be no change in the practice heretofore observed concerning subject credit, the granting of which is at the discretion of the head of each department, subject to the meeting of such conditions or the passing of such examinations as he may with reason impose. Admission to any class does not necessarily carry with it credit in all work previously done by the class, since the head of any department has the right to demand satisfactory evidence of the completion of previous work in that subject equal to that required of the student of this College, and in case the work is not equal to such requirement the deficiency stands against the student as a "condition," till removed. In case subject credit is granted in excess of that previously done by students of the class into which the applicant enters, he is free to use the time thus gained in such extra work as he may elect. Thus students who come from high grade colleges and have completed a portion of the required work may be enabled to pursue studies for a master's degree or to go into advanced courses in any department in which they are prepared to work.

**Adult Special Students.** When circumstances are such as to allow it without detriment to the work of candidates for degrees, a student not seeking a degree may be admitted as an unclassified "adult special" student. A junior or a senior in the College of Arts and Sciences or the Teachers College may, with the consent of the department involved, take any of the courses offered in the College of Medicine by registering as an unclassified student in this College and paying the laboratory fees attached to the course or courses chosen and also a pro rata tuition fee; provided, however, that the tuition charge for any course in the College of Medicine so taken by a student in either of the general colleges shall in no case be less than \$5.00 a semester.

**Registration.** The first five days of each semester—from 9 a. m. Tuesday to 5 p. m. Saturday—are allowed for registration. To promote

prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days. A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. A student taking the college work required for entrance to the College of Medicine matriculates and registers in the College of Arts and Sciences until the necessary amount of college work is completed. A student taking the combined six-year course for the degrees of Bachelor of Science and Doctor of Medicine matriculates and registers only in the College of Arts and Sciences during the first two years of his work. He continues to register in the College of Arts and Sciences during the next two years, or until he receives his B. Sc. degree; but he must also matr culate and register in the College of Medicine at the beginning of the third year's work and must regularly thereafter register in the College of Medicine. If he is a candidate for the A. B. degree, he must begin to register also in the College of Medicine not later than the beginning of the fourth year of his course, as at least four years' registration in a college of medicine is required of all who receive the M. D. degree. No regular student is registered for less than twelve (12) hours nor more than eighteen (18) hours a semester without the Dean's permission. No student may add any subject to his schedule or drop from it any subject for which he has been regularly registered, without written permission from the Dean. Students cannot attend classes for which they are not registered and credit is not granted for studies pursued without registration. Any change in a student's residence must be immediately reported to the Registrar.

### REQUIREMENTS FOR GRADUATION

The degree of Doctor of Medicine is granted only under the following conditions:

1. The candidate must be twenty-one years of age.
2. He must possess a good moral reputation.
3. He must have complied with all the requirements of admission and must have paid all his fees.
4. He must have completed and have secured credit in all required subjects in the curriculum.
5. He must have pursued the study of medicine for at least four years and must have passed the necessary examinations and have received credit for at least four full years of instruction at medical colleges in good standing. The last year he must have taken in this institution.

**Credit.** In accordance with the Constitution of the Association of American Medical Colleges, each student is obliged to attend at least 80 per cent of the exercises in every annual course of study for which he seeks credit. No student is given credit on examination unless he attains a grade of at least 70 per cent, or its equivalent in any other marking system. And no student is graduated unless he has secured credit in all subjects of the required curriculum. By vote of the clinical faculty the passing grade for medical students in the third and fourth years of the course is 75 per cent, which is the grade required in licensing examinations of the Nebraska State Board of Health.

**Absence or Withdrawal.** The Dean of the College of Medicine is the adviser of all students in the College of Medicine. He has a consultation hour in the dean's room, Administration Hall 104, where students may call seeking advice touching their work. A leave of absence for a short time may be granted a student by the dean of his college. This leave is merely a justification for absence and not an excuse from any work. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Registrar grants him permission to do so. If he is in good standing and is not a minor he is given honorable dismissal from the University at his own request; if a minor, at the request of his parents or guardian.

### FEES AND EXPENSES

**Fees.** All fees and charges to students in Lincoln are payable in advance to the Secretary of the University; to students in Omaha, at the office of the College in the College building. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a course or from the University. The schedule of fees in the College of Medicine is as follows:

Matriculation fee.....	\$5
Diploma fee.....	5
Diploma fee, in absentia, additional .....	10
Diploma, "cum laude," fee.....	10

No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.

## FIRST-YEAR AND SECOND-YEAR FEES—LINCOLN

Tuition, first semester (or any single semester).....	\$25
Tuition, second semester.....	20
Incidental, each semester (6-year combined course).....	3

## LABORATORY FEES

Anatomy 1.....	\$15
Anatomy 2.....	10
Anatomy 3.....	5
Anatomy 8.....	3
Anatomy 11, 12.....	graduated
Bacteriology 1.....	8
Botany 1, 2.....	each 2
Chemistry 41.....	2
Chemistry 1, 2, 34.....	each 5
Chemistry D, 1 and 2 combined, 3.....	each 10
Clinical Diagnosis (Pathology 4).....	4
Histology and Embryology 1 and 11.....	6
Histology 11a.....	3
Histology 4.....	5
Histology (Organology), 12.....	4
Histology 13, each credit hour.....	2
Histology 1a, 15.....	2
Materia Medica (Pharmacology 4).....	2
Pathology 2.....	10
Pharmacy (Pharmacology 1) .....	5
Pharmacodynamics (Pharmacology 2) .....	10
Physical Diagnosis (Physiology 14) .....	2
Physics 1, 2, 3, 4.....	each 4
Physiology 12.....	9
Physiology 13.....	6
Zoology 1, 2, 7, 15.....	each 2
Zoology 6.....	5
Zoology A.....	4

## JUNIOR YEAR—OMAHA

Fees for all required exercises, including all laboratory and clinic fees, \$80	
Breakage deposit.....	10
Examination fee.....	10

## SENIOR YEAR—OMAHA

Fees for all required exercises, including laboratory and clinic fees. .	\$80
Breakage deposit.....	10
Examination fee.....	10

Breakage in the laboratory and damage to the college property are charged to the individual or class responsible. In case the damage can not be located, it is charged the class *pro rata*.

All fees are payable strictly in advance when the session opens. A student is not entitled to appear for any one of his final examinations until all his fees are paid.

A graduate of any recognized medical college who desires to attend the Omaha clinical work of the University of Nebraska College of Medicine may do so by paying a fee of \$10.

**Expenses.** In Omaha board and lodging cost from \$3 to \$5 a week. By means of clubs students materially reduce this expense. The Young Men's Christian Association issues to students in the College of Medicine special season tickets at a very small cost, granting the privileges of the association's building—baths, gymnasium, parlors, lectures and concerts. Elegantly equipped rooms may be rented at reasonable prices. The location relative to the College makes the Young Men's Christian Association building a convenient home for the students. In Lincoln board and lodging may be secured in private families for from \$3 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and the Young Women's Christian Association of the University keep lists of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

### GRADUATE WORK IN MEDICINE

To provide a still more thorough training in medicine the College of Medicine offers an additional optional year of graduate study, consisting of (1) research work in any one of its departments; or (2) work as an interne in some approved hospital; or (3) advanced study in some appropriate field at a research laboratory or other institution of higher learning, together with the preparation of a thesis. This thesis must embody the results of independent observation and investigation in connection with any one of the types of work mentioned above and the subject must be approved at the beginning of the work by the student's advisory committee. This thesis shall be presented to the advisory committee at least one month prior to the date of taking of the degree and shall be by them placed where members of the faculty may freely examine it.

On completion of the required work and the presentation of a satisfactory thesis, the student may receive the degree of Doctor of Medicine *cum*

*laude*, provided he is favorably recommended to the faculty by his advisory committee and the faculty by unanimous vote approves the recommendation.

A student desiring to become a candidate for this fifth year's work should indicate his purpose in writing with the Dean on or before Commencement Day of the year preceding such advanced study. His advisory committee, the chairman of which must be a member of the faculty of this college and either the head of the department in which he is to work or the chief of staff of the hospital in which he is to serve as interne, will be appointed at once and take charge of his work.

Normally, hospital internships are taken in some one of the affiliated hospitals; all other cases must be the subject of specific request and approval by the faculty on recommendation of the Deans. Approval must also be secured from any non-affiliated hospital elected, and the chief of its staff must express in writing his willingness to accept the interne and to carry out the conditions laid down by the committee for his work.

The candidate must also secure permission in order to undertake work at a research laboratory or other institution, and must fulfill all conditions which his committee may impose.

#### REVIEW COURSE FOR PRACTITIONERS

Owing to the recent marvelous advances which have been made by the application of various sciences to the art of medicine, it has become necessary that the physician be familiar with the bearing of those facts upon the diagnosis and treatment of disease which are of very recent introduction and which in many cases have not yet found their way into the standard text-books on the subjects. Furthermore the constantly increasing number of such applications makes it probable that for many years to come this necessity will become constantly more accentuated. In view of this fact the College of Medicine believes that it is performing a part of its duty to the profession by placing before its members opportunities whereby those who have been in practice several years may become familiar with these advances. Accordingly, there was established three years ago the Practitioner's Review Course, consisting of general lectures and laboratory demonstrations, and special laboratory work in certain lines for those who wish a more specialized course.

In order that the course may to a certain extent have the advantage of intensiveness, the work last year was restricted to the consideration of a single system—the digestive system. A review of the anatomy, gross and microscopic, was followed by work in physiology, pharmacology, bacteriology and pathology, and this by operative work on dogs, which led up to clinical demonstrations in hospitals, both at Lincoln and Omaha. This course has been held during the last week of April or the first in May.

### EQUIPMENT

The work in Lincoln is given in the various laboratories of the University, which are well equipped with the necessary apparatus. A more detailed description of the facilities provided is found in connection with the announcement of courses given by different departments.

The college building\* in Omaha, completed in 1899, and situated at the corner of Twelfth and Pacific streets, is a brick and stone structure, having four stories above the basement. On the first floor are the faculty room, the students' lobby, and the free dispensary. The latter comprises a waiting room for patients, a pharmacy, a dispensary laboratory, and numerous departmental clinic rooms for the systematic examination and treatment of patients. On the second floor are the offices, the amphitheater with a seating capacity for 250, the library, the reading room, and a commodious coat room. On the third floor are the museum, chemical laboratory thirty by fifty feet in size, private rooms for the professors of surgical anatomy, clinical chemistry, and pathologic anatomy, and a smaller amphitheater with a stationary table to which gas and running water are supplied for practical demonstrations in these branches. The fourth floor is wholly given up to microscopic work. The laboratories, occupying a space one hundred by thirty-five feet, have light on every side. Stationary tables for the preparation and mounting of specimens occupy the center of the room. These tables are supplied with gas and running water and are made as convenient as possible to conserve the student's time. In front of each window is a table furnished with gas attachments and Bunsen burners. In this room are lockers so that each student has a safe place for his working outfit. The clinical and pathological laboratories are commodious and provided with abundant light. The arrangement is such that the class may, at a moment's notice, be assembled from the laboratory desks to recitation benches at one end of the room, where demonstrations may be made from gross specimens by the use of series of blackboards or by means of projection apparatus. These laboratories are provided with a lantern, a projection microscope and a complete Zeiss epidiascope, as well as a collection of slides, models and charts. Clinical laboratory instructors are included in the faculty, the clinical laboratories are thoroughly equipped, and much time is devoted to the study of clinical pathology in the laboratories in connection with the lectures and clinics. The museum has been enlarged and affords a large variety of well-selected material for demonstration.

### CLINICAL FACILITIES

For practical teaching in all departments of medicine and surgery, this College has unusual clinical facilities. Its students have access to nine hospitals, in five of which the College has exclusive clinical privileges.

\*See "Equipment of the University," pages 7-8.

**The College Dispensary.** The College Dispensary on the first floor of the College building is designed for the gratuitous treatment of all worthy charitable cases that may apply. The space assigned includes a large reception room and adjoining consultation rooms for the separate examination and treatment of cases in surgery, medicine, gynecology, pediatrics, eye, ear, nose, throat, skin and genito-urinary diseases. Members of the clinical faculty and their assistants are in daily attendance from twelve to two o'clock. Students in the senior class are divided in rotation among the different departments, whereby they are put in close touch with the histories, examinations, diagnoses, and treatment of cases. The material available is ample to demonstrate the usual diseases and accidents met with in practice. Selected cases are demonstrated and discussed with especial care before the entire class. Advanced students are often sent out from the clinic to see urgent cases at their homes and to make reports thereon to the instructor in charge. Students who have not had experience in dispensing drugs are assigned in rotation to the pharmacy in connection with the dispensary, where they are instructed in writing and reading prescriptions and in compounding and dispensing drugs. This pharmacy is under the direction of a registered pharmacist.

**The Nebraska Methodist Hospital.** In the Nebraska Methodist Hospital, which received about 1,450 patients last year, this college has exclusive clinical privileges. A new, commodious, fire-proof building, planned by one of the best architects in the country and embodying the most modern details of construction and arrangement, has been recently erected. It contains an operating pavilion and amphitheater seating about 100 students and is furnished with the best appliances known. At this hospital weekly clinics are held throughout the session for the advanced class in surgery, orthopedics, internal medicine, and ophthalmology and otology. From the graduating class three internes are selected for a year's service each, with provisional opportunities for extended work.

**The Immanuel Hospital.** In the Immanuel Hospital this College also has exclusive clinical privileges. This hospital is well arranged and thoroughly equipped for the application of scientific methods in the treatment of disease. It contains an operating amphitheater, accommodating about eighty students, with the seats so arranged that each student has an unobstructed view of the operator or instructor. An addition to the building is completed which increases its capacity to one hundred and twenty beds. Weekly clinics are held in internal medicine and surgery. Occasionally there are clinics in laryngology and rhinology. From the graduating class two resident physicians are appointed soon after Commencement to serve

one year. One or more students are given positions as assistants in their senior year.

**The Douglas County Hospital**, costing \$200,000 and accommodating 300 patients, includes a maternity pavilion and an insane department. There has lately been added a pavilion for the modern treatment of cases of consumption. This institution is in reality the charity hospital of Omaha and the surrounding country. Since cases illustrative of all diseases, acute and chronic, occurring in this section of the country are found here, the students of this college have exceptional opportunities for direct bedside instruction in all departments. Regular clinics are held weekly in medicine, genito-urinary diseases, dermatology, gynecology, mental diseases and obstetrics. Two resident physicians are appointed on competitive examination each spring for a term of one year. Always one and frequently both of these have been graduates of this college.

**The Clarkson Memorial Hospital**, a new modern building, located at Twenty-first and Howard streets, within an easy walk of the College, was occupied in the spring of 1909. It is a thoroughly modern hospital building, and has 70 beds and two operating rooms. The hospital affords opportunities for two internships. Clinics in therapeutics, medicine, ophthalmology and otology, and gynecology are held weekly in the amphitheater.

**The Wise Memorial Hospital**. This hospital has been rebuilt and trebled in size. The new building is of stone, pressed brick and iron construction; it is modern in every respect. There are sixty-one beds and two well equipped operating rooms. Clinics in medicine, otology, and rhinology are held weekly in the amphitheaters. One interne is chosen from the graduating class each year for a service of one year. The hospital is located within walking distance of the College.

**The Swedish Mission Hospital**, located at Twenty-fourth and Pratt streets, has a capacity of 45 beds. The operating room is provided with an amphitheater for students. Surgical clinics are held here by appointment by Professor Stokes. Two internes are appointed each year from the graduating class.

In the **Child-Saving Institute** this College has exclusive clinical privileges. The Institute will soon occupy a new building especially constructed for its use, on Forty-second and Harney streets, directly across the street from the new clinical campus. The new building embodies all the latest improvements; it contains operating and sterilizing rooms and isolating wards. The opportunities here for the study of the dressing, care and feeding of infants, and of the diagnosis, progress and treatment of the different gastro-intestinal and contagious diseases of childhood are unexcelled.

Occasional outbreaks of infectious diseases in the constantly-changing inmates afford unusual opportunities for illustration of the subjects taught in the course of pediatrics.

**The Tinley Rescue Home** is under the direct supervision of Professors Somers and Pollard, and furnishes an abundance of material for clinical instruction. In addition to the normal cases, most of the obstetrical operations are performed in the presence of the members of the graduating class.

**The Visiting Nurses' Association.** The search of the Visiting Nurses' Association for deserving, unattended sick furnishes the members of the faculty of obstetrics many cases of confinement. These are assigned to members of the senior class under the direction of the obstetrical staff of the College.

#### HOSPITAL APPOINTMENTS

The Glenwood Institute for the Feeble Minded affords a salaried physician as a house physician for one graduate in medicine each year. At the Douglas County Hospital two internes are appointed by competitive examination each year. Two internes are chosen by competitive examinations given by the medical staff of the Omaha General Hospital. The following internships are filled exclusively from the graduating class of the College of Medicine for a service of one year; three at the Nebraska Methodist Hospital; two at the Immanuel Hospital; two at the Clarkson Memorial Hospital; one at the Wise Memorial Hospital; two at the Swedish Mission Hospital.

Several graduates of the College secure positions each year in other hospitals in Nebraska and adjacent states. The faculty receives frequent inquiries from superintendents of hospitals desiring recent graduates for such positions. The proportionate number of these positions open to the college will thus be seen to be far beyond that open in the majority of medical colleges, and under present conditions all capable students desiring hospital training may obtain the inestimable advantage of a year's hospital service before entering upon private practice.

Two graduates may also secure for six months of each year positions as assistant police surgeons. This is a valuable experience, as from fifty to one hundred emergency cases are treated by these men each month. In addition to regular internships for the graduating class opportunities are afforded several students of the senior class to serve in the various hospitals affiliated with the College of Medicine. These positions do not conflict with the scheduled work of the College, and supply valuable experience to the students so engaged.

#### PUBLIC ADDRESSES

To give medical students knowledge at first hand of important movements in medicine and allied sciences special convocations are held several

times each year in Lincoln and Omaha on such dates as it is possible to secure speakers from abroad. Members of the medical faculty in Lincoln also give occasional addresses of general interest on medical subjects at the regular University convocations. In furtherance of the same idea the College of Medicine has aided in the formation within the Nebraska State Teachers' Association of an auxiliary section on "Popular Medical Education," the object being to discuss medical subjects of practical importance in our public schools.

#### LIBRARIES, PUBLICATIONS AND SOCIETIES

**In Omaha** the College of Medicine library contains about 1,000 volumes, including an up-to-date collection of text-books covering the entire range of medical science. This collection does not obviate the necessity of students having their own text-books, but offers greater opportunities for investigation of subjects in which they are specially interested. Periodical literature is also on file. The Omaha Public Library contains 60,000 volumes, including a good medical library, the use of which is free to students in the College.

**In Lincoln** the following libraries, aggregating 224,174 volumes, are accessible to students: The University Library of 95,000 volumes, particularly strong in those scientific lines wherein lies the first two year's work of the student of medicine, and including special departmental libraries in botany, chemistry, hygiene, physiology, zoology, bacteriology, pathology, and medicine, and also the library of the Nebraska State Medical Society of 1,300 volumes. The Lincoln City Library, of 28,574 volumes, has an alcove devoted exclusively to medical literature. The State Library of 65,000 volumes at the Capitol, includes valuable medical works in certain lines. The Nebraska State Historical Society Library of 34,300 volumes, contains useful series of public documents, such as reports of state boards of health and of state hospitals and other institutions.

**The Bulletin.** The College of Medicine publishes an annual Bulletin, of the nature of a year-book and offered in exchange for other medical and college publications.

**The Alumni Association** of the College of Medicine maintains an active and efficient organization, of advantage to both the graduates and the University. In order that the College may keep in touch with its Alumni they are requested to notify the Registrar and the secretary of the association when they change their address. The past fall the experiment was tried of arranging a clinical alumni review and reunion week. The program

occupied fully the days from Monday, October 31, to Saturday, November 5, the forenoons and afternoons being spent in clinics, the evenings in social pleasures. Formal lectures were given as follows:

Col. J. M. Banister, M. D., U. S. A.: "The Work of the Army Medical Service."

Dr. R. A. Lyman: "The General Trend in Modern Therapeutics."

Prof. A. E. Guenther: "Hormones as Secretory Stimuli."

Dr. H. H. Waite: "The Office Laboratory."

An automobile excursion was made on Friday to the Glenwood (Ia.) Institute for the Feeble Minded. The attendance was large and the week a success in every way. It is planned to repeat it the coming fall, when with the experience gained, it should be a still greater success and a source of great profit to all those who find it possible to attend.

The Pathological Society is a club composed of members of the faculty in Lincoln which meets weekly for reviews of recent literature, reports or investigations carried on by its members, and the discussion of current scientific problems of medical interest.

The Medical Society of the University of Nebraska, at Lincoln, is a student organization to membership in which any student in the University at Lincoln looking forward to medicine is eligible. Meetings are held every two weeks, some of which are addressed by members of the faculty or others invited to do so, some of which are purely social.

#### GENERAL COLLEGE PRIVILEGES

Students in the College of Medicine have the privileges of other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of physical exercise adapted to his case. For engaging in athletics there is abundant opportunity. Military drill is required of all students in the college years preparatory to the work in medicine, and in the first two years of the six-year combined course.

The Summer Session of the University affords opportunities to make up deficiencies in entrance requirements and in certain lines of laboratory work.

**ORDER OF SUBJECTS IN THE SIX-YEAR COMBINED  
ACADEMIC AND MEDICAL COURSE**

All students are urged to take this course, if possible, since it affords the best possible training with the greatest economy of time, and furthermore gives the student the advantage of possessing the bachelor's degree.

FIRST YEAR	1st Semester Hours	2d Semester Hours
Chemistry 1, 2 . . . . .	2	2
Botany 1, 2 . . . . .	3	3
General Zoology (Zoology 1, 2) . . . . .	3	3
Rhetoric 1, 2 . . . . .	2	2
Modern Language (German) . . . . .	5	5
Military Drill . . . . .	1	1
	—	—
	16	16
<b>SECOND YEAR</b>		
Physice 11, 12* . . . . .	4	5
Volumetric Analysis (Chemistry 8) . . . . .	2	—
Medical Zoology (Zoology 15) . . . . .	2	—
Vertebrate Anatomy (Zoology 6) . . . . .	—	4
Osteology (Zoology 7) . . . . .	2	—
Modern Language (German or French) . . . . .	5	5
Psychology (Philosophy 3) . . . . .	—	3
History of Medicine . . . . .	2	—
Military Drill . . . . .	1	1
	—	—
	18	18
<b>THIRD YEAR</b>		
General and Practical Anatomy (Anatomy 1, 2) . . . . .	6	5
General Physiology (Physiology 12) . . . . .	—	6
Embryology and Histology 1, 11, 12 . . . . .	4	3
Physical, Organic and Physiological Chemistry (Chemistry 3, 25, 34) . . . . .	7	4
	—	—
	17	18

\*During 1911-1912, the students in the second academic year will elect Physics 3 and 4 as outlined in the catalog for 1910-1911.

## FOURTH YEAR

	1st Semester Hours	2d Semester Hours
Regional Anatomy (Anatomy 3).....	2	
Neurology (Anatomy 8, Histology 15) .....	4	
Advanced Physiology (Physiology 13) .....	4	
Pharmacodynamics (Pharmacology 2) .....		5
Bacteriology 1.....	4	
Pathology 2.....		6
Clinical Diagnosis (Pathology 4).....		2
Toxicology (Chemistry 41).....	2	
Pharmacy (Pharmacology). 1.....	1	
Materia Medica (Pharmacology 4).....		2
Physical Diagnosis (Physiology 14).....		2
	<hr/>	<hr/>
	17	17

## FIFTH AND SIXTH YEARS

The work of the last two years is identical with that of the Junior and Senior years of the Four-year Course below:

## ORDER OF SUBJECTS IN THE FOUR-YEAR MEDICAL COURSE

FRESHMAN YEAR	1st Semester Hours	2d Semester Hours
General and Practical Anatomy (Anatomy 1, 2).....	6	5
Organic and Physiological Chemistry (Chemistry 3, 34) .....	5	4
General Physiology (Physiology 12).....		6
Embryology and Histology 1, 11, 12.....	4	3
Osteology*.....	1	
	<hr/>	<hr/>
	16	18

## SOPHOMORE YEAR

Regional Anatomy (Anatomy 3).....	2
Neurology (Anatomy 8, Histology 15) .....	4
Advanced Physiology (Physiology 13) .....	4
Toxicology (Chemistry 41).....	2
Pharmacodynamics (Pharmacology 2) .....	5
Bacteriology 1.....	4
Pathology 2.....	6
Clinical Diagnosis (Pathology 4).....	2

\*For those who have not had the subject in the required college years.

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	1st Semester Hours	2d Semester Hours
Pharmacy (Pharmacology 1).....	1	
Materia Medica (Pharmacology 4).....		2
Physical Diagnosis (Physiology 14).....		2
	<hr/>	<hr/>
	17	17
<b>JUNIOR YEAR</b>		
Special Pathology.....	1	1
Therapeutics.....	2	2
Sanitation and State Medicine.....		1
Surgical Anatomy.....	1	
Physical Diagnosis .....	2	2
Medicine .....	4	4
Surgery.....	4	4
Obstetrics.....	2	2
Prescription-Writing.....	1	
Pediatrics.....	1	
Ophthalmology and Otology.....		1
	<hr/>	<hr/>
	18	17
<b>SENIOR YEAR</b>		
Clinical Laboratory.....	2	2
Nose and Throat.....	1	1
Gynecology .....	2	2
Surgery Conference and Practice.....	3	3
Obstetrics.....	2	2
Mental and Nervous Diseases.....	1	1
Dermatology.....	1	1
Therapeutics.....	1	1
Jurisprudence .....		1
Life Insurance Examination.....	1	
Ophthalmology and Otology.....	1	1
Medicine .....	3	3
	<hr/>	<hr/>
	18	18

NOTE—Dispensary and sectional clinics in addition throughout the year.

## HOURS DEVOTED TO EACH SUBJECT

(Sixteen weeks of actual class instruction in each semester except the last of the senior year, which has fourteen.)

	First Year	Sec'd Year	Third Year	Fourth Year	Entire Course	Total						
	Lect. and Recit.	Laboratory	Lect. and Recit.	Laboratory	Lect. and Recit.	Laboratory	Clinics	Dispensary	Lect. and Recit.	Laboratory	Clinics	Dispensary
<b>ANATOMY:</b>												
Gross and Practical	112	288	64						112	352		
Nervous System		16	32						16	32		
Applied and Surgical		32		32					64	32		
Histology	56	128	16	32					72	160		
Embryology	24	64							24	64		
<b>CHEMISTRY:</b>												
Organic	80	128							80	128		
Physiological	64	112							64	112		
Toxicology		48	48						48	48		
<b>PHYSIOLOGY:</b>	64	128	48	48					112	176		
Physical Diagnosis			16	32					16	32		
<b>PHARMACOLOGY:</b>												
Pharmacy			48							48		
Pharmacodynamics	64	96							64	96		
Materia Medica	32	32							32	32		
<b>BACTERIOLOGY:</b>	64	128							64	128		
<b>PATHOLOGY:</b>												
General		80	160						80	160		
Clinical Diagnosis		32	32	64					32	96		
Surgical				32						32		
<b>THERAPEUTICS:</b>					(As sign ment to Aut op si es)							
					96	30	126					
					(Dr ug room Work)							
<b>MEDICINE:</b>												
Physical Diagnosis		32	32						32	32		
Internal Medicine		160	96	90		120	250	216				
Tropical Diseases				12		12		12				
		(As sign ment of Sections to Dis pen sar y, C linical La bora tory, etc.)										
<b>SURGERY:</b>												
Fractures and Dislo- cations				16		16						
Principles		96							96			
Bandaging & Dressing		32							32			
Practice				30		30						
Conference				30		30			30			
Quizzes		64		30		94						
Clinics and Instruc- tion in Anesthetics			160		120		280					
		(Assignment of Sections to Operative Surgery, Experimental Surgery, Dispensary, etc.)										

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## HOURS DEVOTED TO EACH SUBJECT—Continued

	First Year	Sec'd Year	Third Year			Fourth Year			Entire Course			Total	
	Lect. and Recit.	Laboratory	Lect. and Recit.	Laboratory	Lect. and Recit.	Laboratory	Clinics	Dispensary	Lect. and Recit.	Laboratory	Clinics	Dispensary	
SANITATION AND HYGIENE . . . . .					32				32				32
GYNECOLOGY . . . . .			(Assignment . . . . .)	Laboratory					60	30	30	60	120*
OBSTETRICS . . . . .			(Assignment to Cases, Manikin . . . . .)		96	to Dispensary	60	Demonstrations, etc.)		156			156*
DISEASES OF EYE AND EAR . . . . .			(Assignment to Dispensary . . . . .)				46		30	46		30	76*
DISEASES OF NOSE AND THROAT . . . . .			(Assignment to Dispensary . . . . .)				46		16	46		16	62*
MENTAL AND NERVOUS DISEASES . . . . .			(Assignment to Dispensary . . . . .)				30		30	30		30	60*
PEDIATRICS . . . . .			(Assignment to Dispensary . . . . .)		16	32	30		30	46		62	108*
DERMATOLOGY . . . . .										30		16	46*
GENITO-URINARY DISEASES . . . . .							32		30	60		92	122
Medical Jurisprudence . . . . .									12				12
Drug-room and Dispensary . . . . .							150					150	150
	400	848	416	752	688	128	352	150	582	30	452	2086	1758
Total for each year . . . . .			1248		1168		1318		1064			4798	
			1st yr.	2d yr.		3d yr.		4th yr.			Entire Course		

\*The time assigned to these departments is really somewhat greater, since they share in the dispensary work; it is difficult, however, to estimate this increment exactly.

**DIDACTIC AND LABORATORY INSTRUCTION\*****ANATOMY**

Professor Poynter, Adjunct Professor Walker, Dr Wekesser, Dr. Hilton;  
in Omaha, Associate Professor Stokes

This department aims to present the subject of human anatomy in a thoroughly scientific manner. The laboratory work is done under constant surveillance. The modeling of bones and drawing of them and of soft parts from the subject as exposed in dissection are also prescribed in the course. The student is required to take frequent individual quizzes upon the cadaver; to demonstrate all parts dissected to a demonstrator; to attend class quizzes two or three times a week; and to pass occasional review quizzes and an individual oral final examination. The lectures supplement the laboratory work, dealing with such facts from embryology, comparative vertebrate anatomy, etc., as will add breadth to the student's view of the field.

The work in anatomy is preceded by courses in general zoology and comparative vertebrate anatomy and is so arranged as to secure a logical development of the subject. In the first year of the course the ground covered is osteology, and the whole of practical anatomy (Anatomy 1, 2), except the nervous system. In the following year follows a review of the subject of descriptive anatomy, together with regional and topographical anatomy (Anatomy 3); the last leads up to surgical anatomy in the junior year (Anatomy 5, 6), and thus the student comes directly to the application of the subject in clinical work. The anatomy of the nervous system is taken up in the first semester of the second year (Anatomy 8), the study of the gross structure being correlated with a study of the histology (Histology 15).

The laboratory occupies rooms for lectures and quizzes, for osteology, for dissection, locker-room, preparation room, and store rooms. The dissecting room is divided into small rooms, one for each table, each under a large skylight and each provided with electric lights for dark days. To assist the student in his work, charts, models, anatomical preparations and carefully selected works of reference are close at hand for ready consultation.

**1. General and Practical Anatomy**—Introductory principles; general descriptive anatomy. Laboratory work; osteology; dissection of human

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\*For details in regard to courses in Language and Rhetoric, the reader is referred to the catalog of the College of Arts and Sciences.

arm, leg, and trunk, exclusive of the viscera; urino-genital organs. Four hours quiz. Ten hours laboratory with demonstrations. Six hours credit. First semester, freshman year.

Professor Poynter, Adjunct Professor Walker, and Demonstrators

**2. General and Practical Anatomy**—1 continued. Laboratory work; dissection of head, neck, and viscera. Three hours quiz. Eight hours laboratory. Five hours credit. Second semester, freshman year.

Professor Poynter, Adjunct Professor Walker, and Demonstrators

**3. Applied Anatomy**—Lectures and demonstrations on the cadaver; regional and topographical anatomy; relationships of anatomic details; practical application. Two hours attendance. Four hours laboratory. Two hours credit. First semester, sophomore year.

Professor Poynter

**5. Surgical Anatomy**—Lectures, illustrated by charts, models and museum specimens; practical work on the cadaver. Designed to apply anatomy to surgery. Two hours lecture. First semester, junior year.

Associate Professor Stokes

**8. Anatomy of the Nervous System**—Including a study of the organs of special sense. Two hours quiz. Four hours laboratory. Two hours credit. First half, first semester, sophomore year.

Professor Poynter

**11. Advanced Anatomy**—For those who have had Anatomy 1, 2 and 3, or a complete dissection of the body, and who desire to review the subject or to cover the anatomy of certain regions. Credit from two to five hours. Fee graduated. Elective. First semester. Professor Poynter

**12. Advanced Anatomy**—Continuation of course 11. Second semester.

## BACTERIOLOGY AND PATHOLOGY

Professor Waite, Doctor Pilsbury, Doctor Albin, Instructor Putnam

### BACTERIOLOGY

This course aims to build a firm foundation for the subsequent practical work in bacteriology. The study of form, structure, multiplication, requirements of growth and the chemical products is followed by applying the facts acquired to fermentation and putrefaction. In the latter half of the course pathogenic organisms are dealt with exclusively. The various ways in which bacteria gain entrance to the body, the changes which they bring about, and their final removal from the body are thoroughly explained. Attenuation and immunity are carefully discussed. Each of the bacterial diseases is then considered from the point of view of etiology. In the laboratory the preparation of culture media is first taken up. This

is followed by a study of their growth on the various media. By these means both non-pathogenic and pathogenic organisms are isolated and identified. A thorough grounding in disinfection and sterilization is required by practical application of the principles discussed in lecture. Animals are inoculated in the presence of the class, which is required to isolate the organisms from the tissues of the animal and grow them in pure culture. Special attention is given to the practical bearing of methods of bacteriological diagnosis.

1. **Bacteriology**—Four hours lecture and quizzes. Eight hours laboratory. Four hours credit. First semester, sophomore year.

Professor Waite, Mr. Putnam

#### PATHOLOGY

The subject of general pathology is thoroughly reviewed. The origin of disease, disturbances of circulation, retrograde changes, inflammation and tumors are carefully studied. In conclusion the diseases of special organs are taken up according to their relative importance. In the laboratory the student is required to identify about one hundred and fifty specimens, and with the aid of the instructor, work out departures from the normal. From the facts thus acquired a diagnosis is made. Descriptions of all sections and drawings of all typical specimens are required to familiarize the student with recording changes seen and to train him in accuracy of observation.

2. **Pathology**—Five hours lecture and quizzes. Ten hours laboratory. Six hours credit. Second semester, sophomore year.

Professor Waite, Mr. Putnam

4. **Clinical Diagnosis**—Normal and pathological blood, urine, gastric fluid, feces and sputum. Blood is studied carefully in relation to its value in diagnosis; laboratory methods of staining, counting and observation of all kinds of blood. Routine work in examining normal and pathologic gastric secretions, urine and feces. Four hours attendance. Two hours credit. Second semester, sophomore year.

Professor Waite, Doctor Albin

#### BOTANY

Head Professor Bessey, Assistant Professor Walker, Mr. Boostrom

Three laboratories—general, advanced, and physiological—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glassware, and other supplies and apparatus.

**1. General Botany**—Introduction to structure of plants (cells, tissues, tissue system). General morphology and physiology of representative species. Three hours lecture. Six hours laboratory. Three hours credit. First semester. Head Professor Bessey, Assistant Professor Walker

**2. General Botany**—The general morphology and physiology of representative species, including flowering plants. Continuation of course 1 and with it furnishing a basis for plant *materia medica*. Second semester.

Head Professor Bessey, Assistant Professor Walker

### CHEMISTRY

Professor Dales, Adjunct Professor Fossler, Adjunct Professor Borrowman, Doctor Cutter, Mr. Frankforter, Mr. Wilson, Miss Graham

A general survey of chemistry, inorganic and organic, including the nature of chemical processes and the use of apparatus.

Instruction by the lecture-laboratory method.

Advanced students having the necessary experience and knowledge do research work under guidance.

**D. The Non-Metallic Elements**—This course is designed to give a general view of chemistry, including the general principles, and taken by students entering without a high-school course. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester. Professor Dales, Mr. Wilson, Miss Graham

**1. Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 entrance points. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Adjunct Professor Borrowman, Mr. Wilson, Miss Graham

**2. Qualitative Analysis**—1 continued. Introduction to quantitative analysis included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Adjunct Professor Borrowman, Mr. Wilson, Miss Graham

1 and 2 (combined course). **Qualitative Analysis.** Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester. Professor Dales, Mr. Wilson, Miss Graham

**8. Volumetric Analysis**—A study of standard volumetric methods. One hour attendance. Five hours laboratory. Two hours credit. First or second semester.

Mr. Frankforter

**3. Elementary Organic Chemistry**—The important classes of organic substances. Preparation in laboratory of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester, freshman year.

Adjunct Professor Fossler

**25. Physical Chemistry**—Elementary course; the general principles of physical chemistry with applications to chemistry and to other sciences. Required in six-year course; elective in four-year course. May be taken with course 3. Two hours credit. First semester.

Professor Dales

**34. Physiological Chemistry**—The organic compounds and chemical processes of physiological importance, including a study of the chemistry of the urine. Useful in subsequent study of practical medicine. Prerequisite: Courses 1, 2 and 3. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. Second semester, freshman year

Doctor Cutter

**41. Toxicology**—Poisons: Chemical nature, antidotes and methods for detection. Must be preceded by courses 1, 2, 3, and 34. Two hours lecture, one hour quiz. Three hours laboratory. Two hours credit. First semester, sophomore year.

Doctor Cutter

## HISTOLOGY AND EMBRYOLOGY

Professor Willard, Mr. Wells

**1. Vertebrate Embryology**—A brief survey of vertebrate development with special reference to morphogenesis and histogenesis of organs. The course is arranged to correlate as closely as possible with those in histology and gross anatomy. The chick and pig are used chiefly for laboratory study, with illustrative material from other groups. The dissection of the foetal membranes and their relation to the uterus form a part of the laboratory study. Two hours lecture. One hour quiz and eight hours laboratory work for eight weeks. Three or four hours credit. First half of first semester, freshman year.

Professor Willard, Mr. Wells

**1a. Microscopical Technique**—This may be elected for one hour credit in connection with other laboratory courses in the department. It includes some systematic instruction and practice in the special methods of preparing material for microscopical examination. The more rapid practical methods of handling tissues will be emphasized for those who desire a technique which may be used with little laboratory equipment. Not less than four hours of laboratory work with personal instruction. One hour credit. Either semester.

Professor Willard

**4. Comparative Vertebrate Anatomy**—A course providing a broad comparative basis for any subsequent work in embryology, microscopical or gross anatomy. In a knowledge of their evolution the student has an explanation for the distinctive structure of the organs of the human body. The adaptation of structure to function, the significance of rudimentary organs and the parallel between evolution and individual development are fully demonstrated in laboratory study. A cartilaginous fish, an amphibian and a mammal, together with prepared dissections from other forms, represent the material used. Anatomical technique is demonstrated to a certain extent in the methods of preservation, injection of blood vessels and the mounting of permanent dissections. A general course in Zoology is a prerequisite. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Professor Willard and Assistant

**11. General Vertebrate Histology**—The finer structure of the vertebrate tissues with special reference to mammals and man. Tissue differentiation is logically presented by way of histogenesis and the functional significance of the structural changes emphasized. Two hours quiz. Eight hours laboratory for eight weeks. Two hours credit. Second half, first semester, freshman year.

Professor Willard, Mr. Wells

**12. Histology of Organs**—The microscopical study of mammalian organs with reference to their tissue constituents and their ultimate relation to blood and lymph supply. The effort is made to bridge the gap between microscopical and gross anatomy by the handling and dissection of fresh mammalian organs in connection with section study. Human material is used where its preservation can be controlled and normal structure insured. Instruction and practice in histological technique is provided for in supplementary courses which may be taken at same time. Two hours quiz. Four hours laboratory work. Three hours credit. Second semester, freshman year.

Professor Willard, Mr. Wells

**13. Advanced Histology and Embryology**—This is a course designed to give opportunity for a more comprehensive study of certain organs that cannot adequately be considered in the required courses. This applies particularly to the nervous and sense organs. Arranged for laboratory and quiz work. Equivalent to two or three hours credit. Elective. Prerequisite: Courses 1 and 2.

Professor Willard

**15. Neurology**—The microscopical anatomy of the human brain, based upon a study of sections prepared to show principally fiber tracts and end nuclei. The course is closely correlated with Anatomy 8. Two hours quiz. Four hours laboratory. One hour credit. Second half, first semester, sophomore year.

Professor Willard

## HISTORY OF MEDICINE

Assistant Professor Orr

**1. History of Medicine and Medical Literature**—Lecture and study course dealing with men who have contributed to medical knowledge from the earliest times to the present. Development of medicine in its different branches as an abstract department of knowledge. Reading and note-taking. Special study of library methods and medical literature, medical cataloging and bibliography. Two hours lecture. Two hours credit. First semester.

Assistant Professor Orr

## HYGIENE, SANITATION AND STATE MEDICINE

Professor Towne

**1. Sanitation and State Medicine**—Relation of medical profession to public health. Theoretical consideration. Results of practical experience. Quarantine regulations of Nebraska. Air, water, climate, soil, heating, ventilation. Municipal and private water supply. Milk. Sewage, disposal of waste. Public and private management of transmissible diseases. Epidemics, contagion, and disinfection. Two hours lecture. Second semester, junior year.

## CLINICAL PATHOLOGY

Doctor Bliss, Doctor Manning

The course in general and special pathologic anatomy and histology is specially designed to apply to the principles of general pathology, to organic and systematic abnormal alterations, and to bring out the close relations of these alterations to clinical symptoms.

Instruction by the lecture-laboratory method, each exercise being a didactic quiz.

Each student is required to write a resume on some assigned subject and to present it before the class.

In addition to this all the students attend and assist at autopsies, make a study of the gross pathologic appearance and later see sections of the tissue.

The work in Clinical Pathology covers examinations of blood, feces, urine, gastric contents, sputum, and other secretions and excretions from the chemical and microscopical standpoints. Especial attention is paid to the study of normal and pathologic blood, in fresh and stained conditions.

**1. Pathologic Anatomy**—Lectures, demonstrations and quizzes in special pathology, post mortem technique and gross pathology. Two hours. First semester, junior year.

**2. Pathologic Anatomy**—1 continued. Second semester.

**3. Pathologic Anatomy**—Conferences on current problems of general and special pathology for half the class. Two hours. Second semester, junior year.

**4. Clinical Diagnosis**—First semester, junior year, two hours lecture and demonstrations. Some work outside of regular hours is also required.

**5. Clinical Diagnosis**—Members of the senior class examine specimens, obtained from clinical cases, in the laboratory under the supervision of the professor in charge and report to the professor holding the clinic. First semester, senior year.

**6. Clinical Diagnosis**—5 continued. Second semester.

### PHARMACOLOGY

Professor Lyman, Adjunct Professor Stevens, Doctor Rowe,  
Mr. Perusse, Miss Day

**1. Pharmacy**—A laboratory course intended to familiarize the student with the fundamental processes in pharmacy, including the manufacturing, compounding, and dispensing of official preparations. Three hours quiz and laboratory. One hour credit. First semester, sophomore year.

Mr. Perusse, Miss Day

**2. Pharmacodynamics**—An experimental study of the physiological action of the drugs of therapeutic value. Two hours quiz. Six hours laboratory. Five hours credit. Second semester.

Professor Lyman, Miss Day

**4. Materia Medica**—A didactic and laboratory study of the origin, natural history, preparations, and methods of using individual drugs. The elements of prescription-writing and the use of the United States Pharmacopoeia and the National Formulary are taught. Two hours attendance. Two hours laboratory. Two hours credit. Second semester.

Adjunct Professor Stevens, Doctor Rowe

### PHYSICS

Professor Skinner, Professor Moore, Mr. McComb, Mr. Spencer

The department of physics occupies a building erected especially for the department, conveniently arranged, with all needed facilities, and well supplied with apparatus.

These courses are designed for those desiring a knowledge of the principle of physics and of its relation to other sciences and to natural phenomena. It is open to students who have completed the Medical College entrance requirements in physics.

**11. Arts Course in General and Experimental Physics**—Mechanics, sound, and heat. Three hours lecture with illustrative experiments. One

hour quiz or written work. Four hours laboratory. Four hours credit. First semester. Professor Skinner, Mr. McComb, Mr. Spencer

12. Arts Course in General and Experimental Physics—Electricity and Light. Course 11 continued. Second semester. Three hours lecture with illustrative experiments. One hour quiz or written work. Eight hours laboratory. Five hours credit.

Professor Skinner, Professor Moore, Mr. Spencer

### PHYSIOLOGY

Professor Guenther, Doctor Welch, Mr. Johnson

A consideration of the facts and theories of vital phenomena, presented with special reference to their application in medicine.

12. Advanced Physiology—Combined lecture, demonstration, and laboratory course. Four hours quiz. Eight hours laboratory. Six hours credit. Second semester, freshman year. Professor Guenther

13. Advanced Physiology—12 continued. Three hours quiz. Three hours laboratory. Four hours credit. First semester, sophomore year.

Professor Guenther

14. Physical Diagnosis—General principles of inspection, palpation, percussion and auscultation. Other physical methods used in the examination of abnormal conditions—determination of blood pressures, registration or arterial and jugular pulse, blood counts, the reactions of degeneration to electrical currents, etc. Physical signs in health and in disease with their clinical demonstration, learned by direct personal examination. One hour lecture and two hours recitation and laboratory. Second semester, sophomore year.

Doctor Welch

### PSYCHOLOGY

Head Professor Wolfe

3. Elementary Psychology—A brief course in general psychology for students wishing a general knowledge of this field. Not open to first year students. Three hours attendance. Two hours laboratory, Three hours credit. Second semester.

Head Professor Wolfe

### THERAPEUTICS

Doctor Goetz, Doctor Jefferson

1. Therapeutics—Discussion of all drugs which under the test of modern investigation have been found useful in the treatment of disease. Application of the scientific data obtained through pharmacodynamics. Questions of treatment considered as matters of direct argument from physi-

ology and pathology rather than as mere memory work. Mechanical, physical and hygienic treatment discussed. Immunity and serum therapy. Personal quizzing; prescription writing. One hour lecture or quiz. First semester, junior year.

Doctor Jefferson

2. Therapeutics—1 continued. Second semester, junior year.

3. Clinical Therapeutics—Practical course. Necessity of definite plans of treatment based upon logical reasoning shown in the more prominent diseases. Embraces the direct application of all forms of therapeutic aid. Lectures, quizzes and clinics. In clinics special attention paid to analyzing cases for therapeutic indications. One hour a week at college, one hour a week at hospital. First semester, junior year. Doctor Goetz

4. Clinical Therapeutics—5 continued. Second semester, junior year.

5. Seminar in Therapeutics—Arranged at opening of school year. Each student makes an investigation and reports upon some of the modern specialized forms of therapeutics, such as the Nauheim treatment, the Carlsbad treatment, the Finsen treatment. Careful investigation of the topic with discussion by the class and criticism by the instructor. Senior year. By appointment.

Doctor Goetz

## ZOOLOGY

Head Professor Wolcott, Professor Powers, Associate Professor Barker, Mr. Medlar, and Assistants

The laboratory has Zeiss and Leitz microscopes, Reinholt-Giltay, Minot and Thoma microtomes, Lillie and Naples paraffin baths, and all necessary subsidiary apparatus. The department library adjacent and freely accessible contains 2,000 works on animal morphology and physiology. A series of specimens from the Naples Zoological Station, one of injected tissues by Thiersch, and embryological models by Ziegler, Dahlgren, and others, is included in the illustrative material.

1. General Zoology—For beginners and those wishing a general insight into methods and principles of the science. The lectures cover the general principles of morphology, physiology, development, distribution, classification and evolution of animals; laboratory work, an intensive study of types drawn from the Protozoa and simpler invertebrates, together with subsidiary cytological and embryological material. Three hours attendance. Four hours laboratory. Three hours credit. By proportionate increase in laboratory and in assigned reading, five hours credit. First semester.

Professor Powers and Assistants

2. General Zoology—1 continued. Second semester.

A. General Zoology—For beginners and those who desire to complete a year's work in general zoology in one semester. This course covers the

same field as courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester.

Associate Professor Barker, Mr. Medlar

7. **Comparative Osteology of the Vertebrates**—A study in morphology, with the skeleton as a basis. The lectures are general and comparative; the laboratory work involves a detailed study of the human skeleton. Two hours attendance. Four hours laboratory. Two hours credit. Should be preceded by Courses 1 and 2 or A. Head Professor Wolcott

15. **Medical Zoology**—Lectures on morphology, taxonomy and economic relations of the groups Protozoa, Platyhelminthes, Nemathelminthes and Arthropoda and their role in the production and transmission of disease. The laboratory work comprises gross dissection and microscopical study and serves as an introduction to microscopical technique. Intended especially for the medical student. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Prerequisites: Courses 1 and 2.

Associate Professor Barker

17. **Animal Parasites**—Taxonomy, morphology, biology and economic relationships of animal parasites. Lectures, laboratory and field work. The handling of a simple assigned problem. Two hours attendance. Four to twelve hours laboratory. May be elected as a two- to five-hour course. First semester. Open to students who have had zoology 1, 2, and 3, or their equivalent. Offered to medical students as an elective.

Associate Professor Barker

18. **Animal Parasites**—Course 17 continued, but may be elected independently. Second semester.

Associate Professor Barker

**CLINICAL INSTRUCTION  
INTERNAL MEDICINE**

Professor Bridges, Professor Milroy, Doctor Truelsen, Doctor Peterson, Doctor Goetz, Doctor Bliss. By invitation, Col. J. M. Banister, M. D., U. S. A.

**1. Physical Diagnosis**—General principles. Demonstration of topography of head, chest, and abdomen. Physical signs in health learned by direct personal examination. Lectures treat of normal conditions. Two hours lecture and recitation. First semester, junior year.

Doctor Truelsen

**2. Physical Diagnosis**—1 continued. Physical signs in disease, and their clinical demonstration on cases taken from dispensary and hospital wards. Second semester, junior year. Three hours. Doctor Truelsen

**3. Internal Medicine**—General diseases, including infections and disease of stomach and intestines, lungs and kidneys. All diseases pertaining to internal medicine; regular recitations held thereon afford theoretical knowledge of the etiology, pathology, symptomatology, diagnosis, and treatment of disease. In clinic in College building the cases are selected from outdoor dispensary, and usually represent seasonable diseases of the ambulatory type. First semester, junior year. (a) One hour lecture. Doctor Bliss. (b) Four hours recitation. Doctors Peterson and Goetz. (c) One-hour clinic. Doctor Bliss. Two hours clinic, Douglas County Hospital or Immanuel Hospital. Professor Milroy, Doctor Ludington, Doctor Truelsen.

**4. Internal Medicine**—3 continued. Second semester.

**5. Internal Medicine**—Includes subjects not studied in junior year. Elucidation of cases seen in hospital clinics, and of cases in private practice, illustrative of the subjects under consideration. Two hours weekly in conference. Members of senior class in rotation are assigned cases for examination and study in the dispensary clinic or at one of the affiliated hospitals, and present a written report thereon before the class and professor. A full discussion of the case follows; etiology, pathology, symptoms, diagnosis, prognosis, and treatment are discussed. One clinic each week in College building, on cases selected from the large amount of material furnished by the dispensary. Two hours weekly at the Douglas County Hospital or the Immanuel Hospital; two hours weekly at the Methodist Hospital. Careful direction here given to elaboratiou of clinical histories and to physical examination of chest and abdomen. Sputum, urine, and blood of patients examined by sections of the class in the college laboratory under direction of professor of pathology and reports made thereon. First se-

mester, senior year. (a) One hour lecture. Doctor Ludington. Two hours conference. Professors Bridges and Milroy. (b) Two hours clinics in the College. Doctors Truelsen and Bliss. (c) Five hours hospital clinics. Professors Milroy, Bridges, Doctor Ludington, Doctor Truelsen, Doctor Goetz.

6. **Internal Medicine**—5 continued. Second semester.

9. **Tropical Medicine**—Lectures on the distribution, etiology, diagnosis, and treatment of such tropical diseases as are of practical importance to American physicians in view of our increasing commercial intercourse with tropical countries by reason of our possessions in the West Indies, in Panama Canal Zone, and in the Islands of the Pacific. The epidemiology and epidemiology of such diseases with the general and special sanitary measures adapted to the prevention, control, and suppression of the same. One hour lecture each week. Second semester, senior year. Doctor Banister

11. **Life Insurance Examinations**—The nature and growth of life insurance; elementary principles of life insurance; duties and responsibilities of examiners; influence of different diseases, heredity, occupation and habits on expectancy of life; proper technique in examining applicants for life insurance. First semester, senior year.

Doctor Cloyd

## SURGERY

Professor Jonas, Professor Davis, Associate Professor Stokes, Doctor Hunt, Doctor Hull, Doctor Morison, Doctor Hollister, Doctor Kennedy, Doctor Orr

1. **Principles of Surgery**—Principles of surgery; full description of the classification of tumors, their pathology, differentiation, relation to general diseases, manifestations, operative and non-operative methods of treatment. Subjects assigned for recitation covering lectures on principles of surgery, surgical pathology and tumors, the practice of surgery, surgical diseases, fractures and dislocations. At the College Dispensary cases are presented for diagnosis, operation and treatment. At this clinic a considerable number of minor surgical cases receive attention, minor operations often being performed. Clinics at Douglas County and Immanuel hospitals; operations for all manner of surgical diseases. Practical use of anesthetics, both local and general, considered at these clinics. First semester, junior year. (a) Two hours lecture. Professor Davis. (b) Four hours recitation. Doctors Hull, Hollister and Kennedy. (c) Two hours dispensary clinic. One hour hospital clinic. Professors Jonas and Davis, Doctors Hull, Morison and Hollister.

2. **Principles of Surgery**—1 continued. Second semester.

3. **Bandaging**—Uses and application of bandaging, plaster of Paris

(including its preparation) and other surgical dressings. Practical work under the direction of the instructor. One hour weekly. First semester, junior year.

Doctor Hollister

4. **Experimental Surgery**—Intended to familiarize student with principles of surgical technique and asepsis by actual operations performed on animals, and done with the same care as on the human body. Optional for juniors, second semester. Three hours clinic.

Associate Professor Stokes

5. **Practice of Surgery**—Covers part of ground gone over in recitations of junior year. References to observations in hospital clinics frequently recalled and elaborated to fix essential points in diagnosis and treatment. Subjects of hospital clinics brought up for conference in the class-room, when cases are more thoroughly discussed than the time allotted in operative work permits. Members of the class in rotation assigned cases for examination, or illustrative cases cited upon which they are required to make reports on diagnosis, pathology, and treatment. Reports critically discussed in conference. Two hours general clinic at the College Dispensary, principally on minor surgery, including examination, diagnosis, treatment and minor operations. Two hours at Nebraska Methodist Hospital in general and major surgery, at which cases illustrative of the lecture course in practical surgery are thoroughly demonstrated and at which there are regular operations on all regions of the body. Two hours at Immanuel, Wise Memorial, or Douglas County Hospitals, also furnish opportunity for similar instruction. Members of the class required to assist at operations and administer anesthetics under direction as occasions arise. First semester, senior year. (a) One hour lecture. One hour conference. Professor Jonas. (b) Six hours clinics. Professors Jonas and Davis

6. **Practice of Surgery**—5 continued. Second semester.

8. **Demonstrations**—Each member of the class individually instructed in performing surgical operations on the cadaver. He is required to master the details and steps of the more common operations necessary in practice, and is called on at times to perform ligations, amputations, excisions, celiotomies for various abdominal diseases, paracentesis, pleurotomy, rib resection and trephining. Second semester, senior year.

Professor Jonas, Doctor Morison

9. **Section Clinics**—Special clinics by appointment in all of the hospitals mentioned above. These clinics afford work in all branches of general and special surgery. First semester, senior year.

Professors Jonas, Davis, and Associate Professor Stokes

10. **Section Clinics**—9 continued. Second semester.

12. **Oral Surgery**—Short course of lectures on the surgery of the mouth

in its relation to diseases of the teeth and alveolar processes; care of teeth and influence of neglect of mouth in production of general and stomach disorders. Second semester, senior year.

Doctor Hunt

13. **Laboratory Course in Surgical Pathology**—Gross and microscopic specimens demonstrated from a diagnostic point of view.

Doctors Hollister and Kennedy

### ORTHOPEDIC SURGERY

1. **Orthopedic Surgery**—Various deformities; diagnosis, pathology and treatment. Joint diseases; their mechanical and other treatment. Practical study of the subjects of the lectures at surgical clinics in Omaha and Douglas County hospitals. Operative procedures and the study of progress in the cases treated. One hour lecture. First semester, senior year.

Professor Jonas and Doctor Orr

2. **Orthopedic Surgery**—1 continued. Second semester.

### GENITO-URINARY SURGERY

A systematic course, including the use of the cystoscope and endoscope, is given on the diseases affecting the genito-urinary organs. In the dispensary clinic the practical application of these instruments, the use of sounds, and local treatment of the mucous membrane of the urethra and bladder are studied. Section clinics at the Douglas County Hospital offer opportunities for the study of venereal diseases, including syphilis in all stages. Operations upon the perineum, testicle, prostate and bladder are performed with the assistance of members of the sections.

1. **Genito-Urinary Surgery**—One hour lecture. One hour clinic. First semester, senior year.

Associate Professor Stokes

2. **Genito-Urinary Surgery**—1 continued. Second semester.

3. **Laboratory Demonstrations**—Practical demonstrations in laboratory on pathology of genito-urinary diseases.

Associate Professor Stokes or Assistant

### OBSTETRICS

Professor Somers, Adjunct Professor Pollard

For practical work in obstetrics the material is ample. Each student is shown one or more cases during the last semester of the junior year, special advantages being afforded students remaining in the city during the summer months. An obstetric clinic from 2 to 4 p.m. Saturdays is in successful operation in connection with this department, at which the students are taught antepartum diagnosis, physiological and pathological pregnancy, and shown cases of interest that may be under observation at the

time. All material at the Tinley Home and for four months of the year at the County Hospital is utilized for this purpose. Written reports of all clinical obstetric work is required and every student must have reported at least five cases of confinement before coming up for graduation.

1. **Anatomy and Physiology of the Female Pelvic Organs**—Development of the ovum; hygiene and management of pregnancy, its signs, diagnosis and pathology. Subject of lectures assigned for study and recitation. Three hours recitation. First semester, junior year.

Adjunct Professor Pollard

2. **The Theory and Practice of Obstetrics as Applied to Normal and Abnormal Labor**—Lectures illustrated by charts, diagrams and models. Three hours lecture. Second semester, junior year.

Adjunct Professor Pollard

3. **Obstetrics**—Mechanism of labor, difficult labor, pathology of puerperal state, and the new-born child. Exercises on manikin in diagnosing position and presentation, including a review of mechanism of normal and abnormal labor. Two hours lecture. First semester, senior year.

Professor Somers

4. **Obstetric Surgery**—History and description of all obstetric operations, with a demonstration of all necessary instruments and their uses. Two hours lecture weekly. Second semester, senior year.

Professor Somers

5. **Attendance on Obstetrical Cases**—The various lying-in hospitals, including the Douglas County Hospital, afford abundant opportunity for the assignment of obstetric cases to members of senior class under direction. During such attendance he is excused from other college exercises. Under direction and in presence of the professor or one of his assistants, he makes examinations, both by abdominal and vaginal palpation, suggests diagnosis, studies the progress of labor and in case operative procedure is necessary, witnesses and assists at operations. Practical use of anesthetics in labor. Second semester, junior year, and first semester, senior year.

Professor Somers, Adjunct Professor Pollard

7. **Pathology**—Normal and morbid anatomy of placenta and pregnant and puerperal uterus. Practical demonstrations in the laboratory. First semester, junior year.

8. **Pathology**—7 continued. Second semester.

#### GYNECOLOGY

Professor Findley, Doctor Hollister. Clinical Assistant: Doctor Fairchild

The instruction in diseases of women consist largely of practical demonstrations. The lectures are illustrated by stereopticon views of pathological

lesions and operative procedures, and in order that the student may be thoroughly grounded in the essentials of diagnosis the lectures and clinics are supplemented by a laboratory course in gynecological diagnosis where gross and microscopic specimens of the various lesions of the female genitalia are demonstrated. The dispensary clinic, held daily in the College building, is regarded as a most important part of the clinical teaching. It is in these clinics that the student is trained in clinical diagnosis and where he may best be instructed in principles of treatment. One college clinic each week is held in the Clarkson Memorial Hospital throughout both semesters where cases are presented for diagnosis and treatment.

**1. Gynecology**—Subject covered by didactic lectures and oral and written quizzes two days weekly. Supplemented by epidiascope illustrations, demonstrations of instruments, casts and pathological specimens. One clinic each week at Clarkson Memorial Hospital, where cases are presented for diagnosis and operation. A special feature of the clinic is the opportunity given each student to make examinations under anesthesia. One hour each day devoted to clinics in the dispensary, where small groups of students are permitted to examine patients, to write histories, and to apply local treatments. First semester, senior year. (a) Lectures. Professor Findley. (b) Demonstrations. Professor Findley, Doctor Hollister. (c) Hospital clinic. Professor Findley, Doctor Hollister. (d) Dispensary clinics. Doctors Hollister and Fairchild.

**2. Gynecology**—1 continued. Second semester.

**3. Gynecological Diagnosis**—A laboratory course, in which the gross and microscopic pathology of gynecological lesions are studied. These demonstrations, together with the lectures and clinics, are intended to supplement amphitheater discussions of pathology. Special stress is laid upon microscopic diagnosis of uterine scrapings and excised pieces. Opportunity is afforded students to do special laboratory work on fresh material from the clinics. First semester, senior year.

Professor Findley, Doctor Hollister

**4. Gynecological Diagnosis**—3 continued. Second semester.

#### OPHTHALMOLOGY AND OTOTOLOGY

Professor Gifford, Doctor Lemere, Doctor Patton

**5. Ophthalmology**—Anatomy and physiology of the eye. Use of the ophthalmoscope; practical study of normal fungus; theory of refraction and retinoscopy. Ten lectures. First semester, senior year.

Doctor Patton

**3. Otology**—Anatomy and physiology of the ear. Use of otoscope;

practical study of normal drum membranes; application and theory of acoustic tests. Ten lectures. First semester, senior year.

Doctor Lemere

1. **Ophthalmology and Otology**—External and internal diseases of the eye and ear and their differential diagnosis. The clinics furnish abundant cases illustrative of the lectures on the eye and ear. First semester, senior year. (a) Lecture and hospital clinic. One hour weekly. Professor Gifford. (b) Section clinics. Doctor Lemere and Doctor Patton

2. **Ophthalmology and Otology**—4 continued. Second semester

4. **Refraction and Retinoscopy**—Practical work at trial cases in dark room. To meet state board requirements. Second semester, senior year.

Doctor Patton

6. **Dispensary Clinic**—In college dark room. Two hours weekly. Senior year.

Doctor Patton

### LARYNGOLOGY AND RHINOLOGY

Professor Owen, Dr. Wherry

1. **Laryngology and Rhinology**—Diseases of the nose, throat and larynx; their dependence upon and relation to various constitutional infections and dyscrasias. One hour lecture. First semester, senior year.

Professor Owen

2. **Laryngology and Rhinology**—1 continued. Second semester, senior year.

3. **Principles and Use of the Laryngoscope and Rhinoscope**—Anatomy and physiology of the upper respiratory tract. A study of normal appearances of nose, throat and larynx. Dark room with artificial light provided in the College Dispensary. One hour weekly. First semester, senior year.

Doctor Wherry

4. **Clinic**—The dispensary clinic furnishes material for study of diseases of the nose, throat and larynx. Having familiarized themselves with the normal appearance and the use of the instruments during the first semester students are prepared for practical instruction in pathology, diagnosis, and treatment of diseased organs. Section clinics and operations in the Wise Memorial and Immanuel hospitals. One hour weekly. Second semester, senior year.

Professor Owen, Doctor Wherry

### DERMATOLOGY AND GENITO-URINARY DISEASES

Professor Schalek, Doctor Klick

The course includes conferences throughout the year in which cases are demonstrated and discussed. Weekly recitations serve to prepare a thorough foundation for the subject. At the College Dispensary students

become familiar with the more common cutaneous diseases. The latest advances in syphilology are presented. The students are made acquainted with the radio-therapy, the carbonic acid snow treatment, and other therapeutic measures. During the second semester a regular weekly clinic is given at the County Hospital which affords abundant dermatological material. From time to time the students are taken to other hospitals to see patients at the bedside. A fine collection of plates and photographs illustrating various diseases of the skin are available for demonstrations.

1. **Dermatology**—Demonstrations at the Methodist, Immanuel, and Clarkson hospitals. First and second semesters, senior year.

Professor Schalek

2. **Dermatology and Genito-Urinary Diseases**—Clinic at the County Hospital one hour weekly. Demonstration of cases and treatment, with lectures. Second semester, senior year.

Professor Schalek

3. **Dermatology**—Quizzes with demonstrations of plates and patients. One hour weekly. First and second semesters, senior year.

Doctor Klick

## PEDIATRICS

Professor McClanahan, Doctor Christie

1. **Pediatrics**—Gastro-intestinal diseases, contagious diseases, diseases of nutrition, and important part played by errors of diet in their production. Milk modification in all its methods, including the working out of percentages. The history and technique of intubation. Clinics at College Dispensary where many cases of ordinary affections of infancy and childhood appear furnish practical applications. One hour lecture. One hour clinic. First semester, senior year.

Professor McClanahan, Doctor Christie

2. Pediatrics—1 continued. Second semester.

3. **Care of Children**—Instruction in the care, hygiene and feeding of infants, cranial measurements, and physical development. One hour lecture and quiz. First semester, junior year.

Doctor Christie

5. **Section Clinics in Pediatrics**—Clinics at the Child-Saving Institute and Methodist Hospital where it is frequently possible to demonstrate practically the contagions, measles, scarlet fever, and whooping cough, as they occur in epidemic form. First semester, senior year.

Professor McClanahan, Doctor Christie

6. **Section Clinics in Pediatrics**—4 continued. Second semester.

**NERVOUS AND MENTAL DISEASES**

Professor Aikin, Professor Moore, Doctor Mogridge

**3. Lectures on Diseases of the Nervous System**—Lectures on the causes of nervous diseases, and the general symptoms. Diagnosis and methods of examination. Diseases of the peripheral nerves. Motor neuroses of spinal nerves. Sensory neuroses of cerebro-spinal nerves. Diseases of the spinal cord. Degenerative diseases. Muscular atrophies. Diseases of the brain. Function neuroses. Insomnia and neurological therapeutics. These lectures will be illustrated by clinical cases at the Methodist, Immanuel, and Douglas County hospitals. At the Douglas County hospital students are assigned cases for examination, diagnosis and treatment and are required to report their cases before the entire class. One hour lecture. Second semester, senior year. Professor Aikin

**1. Lectures on Diseases of the Mind**—Definitions, classification, general etiology, general pathology. General psychology. General symptoms and symptom groups. Examination and diagnosis. Functional psychoses, organic psychoses. One hour lecture. First semester, senior year. Professor Moore, Professor Aikin

**2. Lectures on Arrested Development**—This course considers the cause, manifestations and diagnosis of arrested development. Six lectures, one hour each, and one day spent at the Glenwood, Iowa, Institute for the Feeble Minded. First semester, senior year. Doctor Mogridge

**MEDICAL JURISPRUDENCE**

Mr. Page

**1. Medical Jurisprudence**—Physicians' contracts, general medico-legal relations. Expert testimony. Malpractice. Life insurance examinations. Injuries and deaths. Poison, identity, and survivorship. Sexual relations. Quarantine sanitation. Medical legislation. Twelve lectures. Second semester, senior year. Mr. Page

**JUNIOR YEAR**  
(Clinics in Italics)

Time Schedule		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
HOUR							
8	<b>Goetz</b> <i>Medicine Clinic</i> <i>Wise Hospital</i>	<b>Hollister</b> <i>(b)</i> <i>Minor Surgery</i> <i>Clinic</i> <i>County Hospital</i>	<b>Bliss</b> Pathology Conference	<b>Goetz</b> Medicine Recitation	<b>Bliss</b> Pathology		
9				<b>Bliss</b> Principles of Medicine	<b>Manning</b> Therapeutics		
10	<b>Manning</b> Therapeutics	<b>Truelsen</b> <i>(b)</i> <i>Medicine Clinic</i> <i>County Hospital</i>	<b>Truelsen</b> (a) Physical Diagnosis	<b>Pollard</b> Obstetrics	<b>Christie</b> Pediatrics Recitation	<b>Immanuel</b> Hospital	
11	<b>Pollard</b> Obstetrics			<b>Hollister</b> Surgery Recitation	<b>Pollard</b> (a) Obstetrics (b) Therapeutics	<b>Davis</b> Surgery Clinic	
1	<b>Stokes</b> <i>Dispensary</i> <i>Surgery</i>	<b>McClaranahan</b> <i>Dispensary</i> <i>Pediatrics</i>	Dispensary and Drug Room work	Dispensary and Drug Room Work	<b>Bliss</b> <i>Dispensary Medicine</i>	<b>Truelsen</b> <i>Medicine Clinic</i>	
2	<b>Stokes</b> (a) <i>Surgical Anatomy</i> <i>Towne</i> (b) Sanitation—State Medicine	<b>Davis</b> Principles of Surgery	<b>Peterson</b> Medicine Recitation	<b>Davis</b> Principles of Surgery	<b>Peterson</b> Medicine Recitation	<b>Christie</b> <i>Pediatric Clinic</i>	
3	<b>Hull</b> Surgery Recitation	<b>Stokes</b> (a) <i>Surg. Anatomy</i> <i>Towne</i> (b) (c) Sanitation—State Medicine	<b>Hull</b> Surgery Recitation			<b>Stokes</b> (b) Experimental Surgery (elective)	
4	<b>Bliss</b> Medicine Recitation		<b>Hollister</b> Surgery Recitation				

(a) First semester. (b) Second Semester. (c) 8 hours.

**SENIOR YEAR**  
(Clinics in Italics)

Time Schedule—Cont'd

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	<b>Morison</b> (b) Surgery	<b>Patton</b> (a) <b>Lemerre</b> Ophthalmology Otology	<b>Jonas</b> <i>Surgical Clinic</i> <i>Methodist Hospital</i>	<b>Goetz</b> <i>Medicine</i> <i>Clarkson Hospital</i>	<b>Schalek-Klick</b> Dermatology (a) College County Hos- pital	<b>McClanahan</b> <i>Child-Saving Inst.</i> by appointment
9		<b>Wherry</b> (a) Laryngology and Rhinology <b>Cloyd</b> (b) (c) Life Insurance			<b>Milroy</b> Med. Conference	<b>Milroy</b> <i>County Hospital</i> <i>Medicine Clinic</i>
10		<b>Findley</b> Gynecology	<b>Kennedy</b> Surgery	<b>Bridges</b> Conference and Medical Clinic <i>Methodist Hospital</i>	<b>Findley</b> Gynecology and Conference <i>Clarkson Hospital</i>	<b>Stokes</b> G. U. and Rectal Surg. (a) College (b) Co. Hospital
11		<b>Jonas</b>	<b>Ort</b> Orthopedic Sur- gery	<b>Alkin</b> Nervous and Men- tal Diseases <i>Methodist Hospital</i> 12 to 1	<b>Schalek-Klick</b> Dispensary Dermatology	<b>Bliss</b> <i>Dispensary</i> <i>Medicine</i>
1		<b>Stokes</b> Dispensary Surgery	<b>McClanahan</b> Dispensary Pediatrics		<b>Alkin, Moore,</b> <b>Mogridge</b> Nervous and Men- tal Diseases	<b>Alkin</b> (b) <i>Nervous Diseases</i> <i>Clinic</i> 8:30 to 12
2		<b>Somers</b> Obstetrics	<b>Goetz</b> Therapeutics		<b>Somers</b> Obstetrics	<b>Somers</b>
3		<b>Ludington</b> Medicine		<b>Gifford</b> <i>Ophthalmology and</i> <i>Otology</i>	<b>Banister</b> (a) Tropical Medicine	<b>Hunt</b> (b) (c) Dental Surgery
4		<b>Hollister</b> (a) Fractures and Dislocations <b>Page</b> (b) (c) Med. Jurisprud- ence		<b>McClanahan</b> Pediatrics	<b>Owen</b> Laryngology and Rhinology	<b>Somers</b> <i>Clinics by Appoint- ment</i>

(a) First Semester. (b) Second Semester. (c) 8 hours. Laboratory open Monday, Tuesday, Thursday and Friday, 8 to 10 a.m.

# The School of Pharmacy

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OFFICERS OF ADMINISTRATION AND INSTRUCTION

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SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

PHILIP JOHN HARRISON, A. B., Registrar and University Publisher.

ROBERT HENRY WOLCOTT, A.M., M. D., Dean of the College of Medicine. Administration Hall 104.

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RUFUS ASHLEY LYMAN, A. M., M. D., Director of the School of Pharmacy and Professor of Pharmacology. Nebraska Hall 7.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University. Nebraska Hall 104.

WILLIAM GRANGER HASTINGS, A. B., Lecturer in Pharmaceutical Jurisprudence and Dean of the College of Law. University Hall 310.

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology. Nebraska Hall 302.

\*BENTON DALES, Ph. D., Professor of Chemistry. Chemical Laboratory.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology. Nebraska Hall 5.

MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry. Chemical Laboratory.

GEORGE BORROWMAN, A.M., Adjunct Professor of Chemistry. Chemical Laboratory.

LEVA BELLE WALKER, A. M., Adjunct Professor in Plant Pathology. Nebraska Hall 105.

FRANCIS JOSEPH PERUSSE, Ph. C., Adjunct Professor in Pharmacy.

NIELS PETER HANSEN, R. P., Lecturer in Pharmacy.

CLARENCE JACKSON FRANKFORTER, A.M., Instructor in Chemistry. Chemical Laboratory.

IRVING SAMUEL CUTTER, B. Sc., M. D., Instructor in Chemistry.

MARY CATHERINE GRAHAM, A. B., Assistant Instructor in Chemistry. Chemical Laboratory.

ELSIE DAY, A. B., Ph. G., Instructor in Pharmacognosy. Nebraska Hall 7.

ERVIN FILLMORE WILSON, B. Sc., Assistant Instructor in Chemistry. Chemical Laboratory.

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\*In charge of the Department of Chemistry.

### ORGANIZATION

The recent awakening in professional circles concerning the manufacture, dispensing and sale of drugs, poisons, and synthetics, together with the passage of the Food and Drugs Act, has placed upon pharmacy and pharmaceutical chemistry, and allied subjects, an importance never before enjoyed. The demand for skilled pharmacists was never so great as at the present time. The training as well as the general and technical knowledge demanded of applicants for positions by pharmacists, manufacturers, and the government is rapidly increasing. Thus while positions and opportunities in pharmaceutical work are on the increase, thorough and scientific training in the fundamental subjects has become imperative.

In view of these facts, the University, in the spring of 1908, organized the School of Pharmacy. The purpose of the school is to give the best possible general and technical training in order that students may become responsible dispensers, pharmaceutical manufacturers, food and drug inspectors, and analysts. Further, the University desires to cooperate with the professional men of the state in their efforts to improve and maintain professional standards in the interest of public health.

### GROUPS AND DEGREES

Three groups of studies are offered, as follows:

1. **A Two-year Group**, leading to the degree of Graduate in Pharmacy (Ph. G.), which prepares directly for drug store and dispensing practice and provides the ground work in analytical chemistry necessary for the drug business and the various phases of pharmaceutical manufacturing.
2. **A Three-year Group**, leading to the degree of Pharmaceutical Chemist (Ph. C.), giving the student a broader foundation and preparing him for a wider field of action. Its graduates are prepared to do analytical work for physicians or the public, to enter either the analytical or biological laboratories of the large manufacturing concerns, and to fill the government positions made necessary by the passage of the Food and Drugs Act.
3. **A Four-year Group**, academic and professional, leading to the bachelor's degree (B. Sc. in Pharmacy). This course includes all the technical work of the course of two years with the privilege of election from the three-year course. Students completing this course are prepared to do graduate work, and if they so desire, may seek the degrees of the Graduate College.

### REQUIREMENTS FOR ADMISSION

Applicants for admission present themselves to the Registrar, who furnishes them with application blanks and directions for proceeding with their examinations, if any, with registration and fee payments. Students may enter at the beginning of either semester, but for many reasons the first semester is preferable. Women are admitted on the same terms as men.

**Entrance from Accredited Schools.** A graduate of an accredited school, academy or high school, on presenting a certificate, is admitted without examination to any classes for which he is fully prepared. Any candidate for admission having credentials from a high school, college, or university not included in the list of schools accredited to this University must, in making application, forward his credentials to the Registrar and be prepared to take such examinations as are prescribed. A student desiring to ascertain whether or not he can be admitted to the first year should apply to the Registrar for blank credential slips. When these are properly filled out and returned, he will be informed at once whether his credentials are or are not acceptable.

**Admission to Two-year and Three-year Groups.** For admission to the two-year and the three-year courses, the applicant must present the equivalent of a two-year (16-point) high school course. The following subjects approved by the State Commission on Course of Study for High Schools are recommended for this two-year high school course. The figures here given denote the number of recitations a week.

#### GRADE NINE.

Algebra. ....	5	Algebra. ....	5
English and Bookkeeping .....	5	English .....	5
Phys. Geography or Agriculture. 5		Agriculture or Civics .....	5
Latin. ....	5	Latin .....	5

#### GRADE TEN

Plane Geometry .....	5	Plane Geometry .....	5
History of Greece.....	5	History of Rome.....	5
Botany, 2; English 3 .....	5	Botany, 3; English, 2. ....	5
Caesar and Latin Composition... 5		Ceasar and Latin Composition..	5

Students slightly deficient in entrance requirements are permitted to make up these deficiencies during the first year of residence. Applicants who have had a four-year high school training are especially advised to register for the three-year course. Notice is given that the entrance requirements for both the two-year and three-year courses will be advanced in the near future.

**Admission to Four-year Group.** The requirements for admission to the four-year course are the same as those for admission to the six-year course in the College of Medicine, and are as follows: The candidate must present entrance "credits" equal to 30 "points," that is, a total of 150 recitation or "credit" hours. Conditional admission is permitted on a minimum of 24 "points," that is, 120 hours.

A "credit point" means the work of five recitations a week, of not less than forty minutes each, for at least eighteen weeks. In laboratory courses a "credit point" means three recitations a week, plus two double periods of laboratory work under the supervision of an instructor.

The requirements in detail are given below. The time element indicated with each subject is essential:

Subjects	Required Points, 17	Elective Points, 13
1. English . . . . .	4	1 or 2
2. History:		
American . . . . .		1 or 2
European . . . . .	2	1 or 2
3. Language (ancient, modern) . . . . .	6	2 to 8
4. Mathematics:		
Algebra . . . . .	3	
Geometry . . . . .	2	1
Trigonometry . . . . .		1
Science:		
Agriculture . . . . .		1
Botany . . . . .		1 or 2
Chemistry . . . . .		1 or 2
Physics (with laboratory, 2) . . . . .		1 or 2
Physical Geography . . . . .		1
Zoology . . . . .		1 or 2
Other subjects taught in an approved manner in an accredited secondary school (one each) . . . . .		6

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1. English: A few of the strongest accredited high schools may, by special action of the Committee on Accredited Schools, be granted two additional elective points, in each of these groups:
  2. History: Four of the six points required must be in Latin.
  3. Language: Two points in Chemistry should be offered though not required; also, two points in Physics.

**Admission of Special Students.** Students, not candidates for degrees, may register in the School of Pharmacy without conforming to the entrance requirements. The admission of special students is permitted after consultation with and upon the recommendation of the Director. Such students must pay the matriculation fee, the laboratory fees of the courses for which they register, and a pro rata tuition fee; provided, however, that the tuition charge shall in no case be less than five (\$5) dollars a semester.

**Registration.** Students are required to register promptly at the beginning of each semester. To promote prompt registration a fee of \$3 is charged any student who, unless excused by the Chancellor, fails to register within the days set aside for this purpose. A like fee of \$3 is charged for re-registration if made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. No regular student is registered for less than twelve (12) hours nor more than eighteen (18) hours a semester. Students cannot attend classes for which they are not registered, and credit is not granted for studies pursued without registration. No student is allowed to change from one college to another without permission to the Registrar signed by the dean of each college concerned. A student so changing college must also pay a new matriculation fee of \$5. No student may change his group or drop any study for which he has been regularly registered without written permission from the Director of the school. Any change in a student's residence must be immediately reported to the Registrar.

**Absence or Withdrawal.** A leave of absence for a short time may be granted a student by the Director of the school. This leave is merely a justification for absence and not an excuse from any work. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of the semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

**Advanced standing** may be granted as follows to applicants presenting proper credentials: (1) Applicants for credit in any particular subject are referred to the head of the department in question for examination. In case subject credit is granted the student is free to use the time thus gained in such extra work as he may elect. (2) Students of pharmaceutical colleges or schools of equal standing are, upon presenting certificate of honorable dismissal, admitted to the class to which credentials issued by such colleges or schools entitle them. Applicants for advanced standing must offer admission credits equal to those required by this school.

### REQUIREMENTS FOR GRADUATION

The requirements for the various degrees given by this school are as follows:

1. The moral character of the candidate must be unquestioned.
2. He must have complied with all the requirements of admission and have paid all his fees.
3. He must have completed all required courses and have passed satisfactory examination on all required subjects in the curriculum.
4. His last year's work must be taken in this institution.
5. Experience in the business of pharmacy is not made a requirement for a degree.

### EQUIPMENT

**The laboratories** of the University are well equipped with all the essential apparatus for giving the most thorough instruction. A more or less detailed description of the equipment is given under the description of courses by the various departments.

**Libraries.** The following libraries, aggregating 224,174 volumes, are accessible to students in Lincoln: The University Library of 95,000 volumes is strong in those scientific lines wherein lies the work of the student of pharmacy. It includes special departmental libraries in botany, chemistry, hygiene, physiology, zoology, bacteriology, pathology, and medicine. It also includes the library of the Nebraska State Medical Society of 1,300 volumes. The Lincoln City Library, of 28,574 volumes, also has an alcove devoted exclusively to medical and pharmaceutical literature. The State Library of 65,000 volumes at the Capitol includes valuable pharmaceutical works in certain lines. The Nebraska State Historical Society Library of 34,300 volumes contains useful series of public documents such as reports of state boards of health and of state hospitals, pharmaceutical associations, and other institutions.

### THE PHARMACEUTICAL SOCIETY

The Pharmaceutical Society is an undergraduate organization, the object of which is to bring the students into contact with the leading professional men of the state and elsewhere, and to promote the athletic and social life of the students. Membership in it is open to all students in the School of Pharmacy.

### GENERAL UNIVERSITY PRIVILEGES

Students in the School of Pharmacy have the privileges of other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of

## THE UNIVERSITY OF NEBRASKA

physical exercise adapted to his case. For engaging in athletics there is abundant opportunity. Military drill is also offered.

The Summer Session of the University affords opportunities to make up deficiencies in entrance requirements and in certain lines of laboratory work.

## FEES AND EXPENSES

**Fees.** All fees and charges are payable in advance to the Secretary of the University. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. The matriculation fee, being a statutory one, cannot be refunded except where collected through error. The schedule of fees in the School of Pharmacy is as follows:

Matriculation fee .....	\$5.00
Diploma fee .....	5.00

No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.

## FIRST YEAR AND SECOND YEAR FEES

Tuition, first semester.....	\$20.00
Tuition, second semester.....	15.00
Incidental.....	3.00
Military,* for the year.....	1.00
For special examination, one subject.....	1.00

No tuition will be charged at present for the third year of the three-year course, the student paying only the laboratory and incidental fees for that year. Students taking the four-year course will pay tuition for only the third and fourth years, when they take the technical work.

## LABORATORY FEES

Bacteriology	
Course 1.....	\$8.00
Courses 3, 4.....	4.00
Botany	
Courses 1, 2.....	2.00
Chemistry	
Courses D, 1 and 2 combined, 3.....	10.00
Course 14.....	8.00
Courses A, B, 1, 2, 21, 22, 34.....	5.00
Courses 7, 8, 39, 40 (per credit hour). . . . .	1.00
Courses 15, 16, 41.....	2.00

\*This fee is charged only to those required to drill in the 4-year course.  
See foot-note, page 69.

Pharmacy	LABORATORY FEES—(CONCLUDED)	
Courses 1, 2, 3, 4.....	.....	\$7.00
Courses 5, 11, 12, 13, 14 .....	.....	5.00
Course 8.....	.....	6.00
Course 9.....	.....	8.00

**Physiology**

Courses 1, 2.....	.....	5.00
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**Expenses.** In Lincoln, board and lodging may be secured in private families for from \$3 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and the Young Women's Christian Association of the University keep a list of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

**GROUPS OF STUDIES****Two-Year Group**, leading to the degree of Graduate in Pharmacy (Ph. G.)

	FIRST YEAR	1st Semester Hours	2d Semester Hours
Botany 1, 2.....	.....	3	3
Chemistry D.....	.....	4	
Chemistry 1, 2 (combined course).....	.....		4
Pharmacy 1, 2.....	.....	5	5
Physiology 1, 2.....	.....	2	2
	SECOND YEAR	14	14
Chemistry 3, 7.....	.....	4	5
Pharmacy 3, 4.....	.....	5	5
Pharmacy (Pharmacognosy) 5.....	.....	5	
Pharmacy (Pharmacology and Therapeutics) 9.....	.....	4	
Pharmacy (Prescriptions and Dispensing) 8.....	.....		4
Pharmacy (Pharmaceutical Ethics) 6.....	.....		1
Pharmacy (Business Methods) 10.....	.....		1
Pharmaceutical Jurisprudence 1.....	.....	18	16

**Three-Year Group**, leading to the degree of Pharmaceutical Chemist (Ph. C.). The studies for the first two years are the same as in the preceding course. The work of the third year is elective. The student may select work to the extent of 18 hours each semester from the advanced courses enumerated under the courses of instruction. This selection, however, must be made after consultation with the Director and the members of the faculty concerned.

## THE UNIVERSITY OF NEBRASKA

**Four-year Group,\*** leading to the degree of Bachelor of Science in Pharmacy (B. Sc. in Pharmacy). Details in regard to the non-technical courses which appear in this schedule, such as rhetoric, should be secured from the announcement of the undergraduate colleges.

	FIRST YEAR	1st Semester Hours	2d Semester Hours
Chemistry 1, 2.....	2	2	
Botany 1, 2.....	3	3	
Modern Language (German).....	5	5	
Rhetoric 1, 2.....	2	2	
Zoology 1, 2.....	3	3	
†Military Drill (men).....	1	1	
	<u>16</u>		<u>16</u>
	SECOND YEAR		
Chemistry 3.....	4		
Chemistry 7.....			5
Modern Language .....	5		5
Bacteriology 1.....			4
Physiology 1, 2.....	2		2
Hygiene 1.....			2
Military Drill (men).....	1		1
	<u>18</u>		<u>13</u>
	THIRD YEAR		
Pharmacy 1, 2.....			5
Chemistry (Advanced Analytical), 39, 40.....	5		5
Chemistry (Physiological) 34 .....			4
Pharmacy (Pharmacognosy) 5 .....	5		
Pharmacy (Pharmacology and Therapeutics) 9 .....			4
Pharmacy (Ethics) 6.....			1
Pharmacy (Business Methods) 10.....			1
Pharmaceutical Jurisprudence 1.....			
	<u>19</u>		<u>16</u>
	FOURTH YEAR		
Pharmacy 3, 4.....			5
Pharmacy (Manufacturing) 11, 12.....	3		3
Chemistry (Toxicology) 41.....			2
Chemistry (Food) 14.....			5
Pharmacy (Prescription and Dispensing) 8.....			4
Pharmacy, (Assaying, Pharmaceutical or Pharmacological) 13.....	6		
	<u>16</u>		<u>17</u>

\*Registration in the College of Arts and Sciences is necessary to enter this group.

†Four semesters of physical training, each giving one hour credit, are required of women.

**COURSES OF INSTRUCTION****BACTERIOLOGY AND PATHOLOGY**

Professor Waite

**1. General Bacteriology**—The form, structure, manner of multiplication, reproduction, requirements of growth and chemical products of bacteria. The relation of bacteria to fermentation and putrefaction and the means by which complex organic compounds are reduced to simple inorganic forms are fully explained. Disinfection, sterilization, and the theories of immunity. Several non-pathogenic and pathogenic forms are studied. Four hours attendance. Eight hours laboratory. Four hours credit. First semester.

Professor Waite

**3. Dairy Bacteriology**—The source of bacteria in milk. Lactic and butyric acid fermentations, peptonizing, rennet-forming, and butyric acid-producing bacteria are discussed and some of the typical organisms isolated. Abnormal fermentations giving rise to slimy, bitter red, blue, yellow and green milk are elucidated. The relation of milk to the spread of tuberculosis, typhoid fever and other diseases. Sterilization and pasteurization. Bacteria in butter-making. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Professor Waite

**4. Agricultural Bacteriology**—The nitrogen problem. The role of bacteria in ammoniacal fermentation, nitrification, and denitrification. The use of bacteria as a means of reclaiming nitrogen lost from the soil. The practical employment of nitrifying bacteria and the employment of pure cultures in growing leguminous plants. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Professor Waite

**BOTANY**

Head Professor Bessey, Adjunct Professor Walker

**1. General Botany**—Introduction to the structure of plants (cells, tissues, tissue systems, including blue-green and green algae and general morphology and physiology of representative species. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Head Professor Bessey, Adjunct Professor Walker

**2. General Botany**—The general morphology and physiology of representative species of brown algae to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Head Professor Bessey, Adjunct Professor Walker

**CHEMISTRY**

Professor Dales, Adjunct Professor Fossler, Adjunct Professor Borrowman,  
Mr. Frankforter, Mr. Wilson, Doctor Cutter, Miss Graham

**REQUIRED**

**\*D. The Non Metallic Elements**—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester. Professor Dales, Mr. Wilson, Miss Graham

\*1 and 2 combined. **Qualitative Analysis**—A study of qualitative reactions and separations, including the identification of common drugs and chemicals and the testing for impurities. Four hours attendance. Eight hours laboratory. Second semester.

Professor Dales, Mr. Wilson, Miss Graham

**3. Organic Chemistry**—The important classes of organic substances. Preparation of typical compounds. Pre-requisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester. Adjunct Professor Fossler

**7. Quantitative Analysis**—Gravimetric determinations of the more important bases and acids, including the assay of drugs. Pre-requisite: Courses 1 and 2. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. Second semester.

Mr. Frankforter

**OPTIONAL**

**A. General Chemistry**—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Professor Dales, Mr. Wilson, Miss Graham

**B. General Chemistry**—Continuation of A. Especial attention is given to the metallic elements, the more common organic compounds, and the applications of chemistry to every-day life. Prerequisite: Course A. Three hours lecture. Four hours laboratory. Three hours credit. Second semester.

Professor Dales, Mr. Wilson, Miss Graham

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\*Students desiring to study chemistry who enter the University with two points credit should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise, to register for D.

8. **Quantitative Analysis**—7 continued. Volumetric analysis, electrolytic analysis, the sanitary analysis of water and the analysis of gases. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. Second semester.

Mr. Frankforter

21. **Assaying**—Qualitative examination of ores. Blow-pipe and chemical tests for the common ores and minerals. Principles of fire assays for gold, silver, and lead in ores and metallurgical products. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First semester.

Adjunct Professor Borrowman

22. **Assaying**—21 continued. Volumetric and gravimetric methods for the determination of silver, copper, zinc, lead, tin, and iron. Two hours lecture. Four hours laboratory. Two hours credit. Second semester.

Adjunct Professor Borrowman

39. **Advanced Analytical Chemistry**—A more extended study of chemical analysis than that offered in courses 7 and 8. Laboratory practice leading to analytical research. Six to fifteen hours laboratory. Two to five hours credit. First semester.

Professor Dales

40. **Advanced Analytical Chemistry**—39 continued. Second semester.

41. **Toxicology**—Poison; chemical nature, antidotes and methods for detection. Prerequisite: Courses 1, 2, 3, and 34. Two hours lecture, one hour quiz. Three hours laboratory. Two hours credit. First semester.

Doctor Cutter

15. **Organic Chemistry**—For students who desire a more extended knowledge of organic chemistry than that offered in course 3, or who wish to specialize. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Adjunct Professor Fossler

16. **Special Chapters in Organic Chemistry**—15 continued. Second semester.

34. **Physiological Chemistry**—The organic compounds and chemical processes of physiological importance, including a study of the chemistry of the urine. Useful in subsequent study of practical medicine. Prerequisite: Courses 1, 2 and 3. Four hours lecture. Eight hours laboratory. Four hours credit. Second semester.

Doctor Cutter

14. **Food and Sanitary Chemistry**—Chemical processes of nutrition; valuation of foods, preservatives, cleansing agents, etc., with a practical laboratory course in food and water analysis, including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2 and 3. Five hours lecture. Twelve hours laboratory. Five hours credit. Second semester.

Adjunct Professor Fossler

**PHARMACEUTICAL JURISPRUDENCE**

Professor Hastings

1. **Pharmaceutical Jurisprudence**—A series of six lectures concerning the legal status of the pharmacist Second semester.

**PHARMACY**

Professor Lyman, Adjunct Professor Perusse, Mr. Hansen, Miss Day

1. **Pharmacy**—An introductory course beginning with the history of pharmacy and followed by a study of weights, measures, specific gravity, vaporization, dessication, distillation, sublimation, comminution, separation of fluids from solids, filtration, clarification and decoloration, precipitation, crystallization, separation of immiscible liquids, granulation, and exsiccation, dialysis, extraction, expression, percolation, etc., and all elementary processes used in the preparation of medicines. Five hours attendance. Eight hours laboratory. Five hours credit. First semester.

Adjunct Professor Perusse

2. **Galenical Preparations**—A study of the pharmacopoeial preparations of waters, syrups, emulsions, glycerites, spirits, elixirs, ethereal solutions, liniments, oleates, infusions, decoctions, tinctures, fluid extracts, solid extracts, etc. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester.

Adjunct Professor Perusse

3. **Official Inorganic Pharmacy**—A study of the inorganic official preparations, the inorganic acids, halogen compounds, alkalies, potassium, sodium, and lithium salts, ammonium, calcium, zinc, iron, lead, copper, silver, mercury, etc. Five hours attendance. Eight hours laboratory. Five hours credit. First semester.

Adjunct Professor Perusse

4. **Official Organic Pharmacy**—A study of the official organic preparations, including oils, resins, fats, soaps, glucosides, alkaloids, and products of animal tissues. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester.

Adjunct Professor Perusse

5. **Pharmacognosy**—A study of the history, classification, constitution and the means of identification of the drug-producing plants. Five hours attendance. Eight hours laboratory. Five hours credit. First semester.

Miss Day

6. **Pharmaceutical Ethics**—A series of lectures in which will be considered the ethics of pharmacy, the relation of the pharmaceutical profession to that of medicine on the one hand, and to the public on the other, the position the pharmacist should take in dealing with proprietary and patent medicine concerns and all other problems with which he must be concerned. One hour attendance. One hour credit. Second semester.

Professor Lyman

8. **Prescriptions and Dispensing**—A detailed study of the prescription and the art of dispensing and compounding. Four hours attendance. Three hours laboratory. Four hours credit. Second semester.

Adjunct Professor Perusse

9. **Pharmacology and Therapeutics**—A study of the dosage and physiological action of official and non-official drugs and poisons. An experimental study of a typical member of each group of drugs will be made. Special attention is given to the anesthetics, narcotics, glucosides, alkaloids, and the physiological assay of drugs. Four hours attendance. Four hours laboratory. Four hours credit. First semester.

Professor Lyman, Miss Day.

10. **Business Methods**—A series of lectures and demonstrations on the commercial aspect of pharmacy. One hour attendance. One hour credit. Second semester.

Mr. Hansen

11. **Manufacturing Pharmacy**.—Advanced work in pharmaceutical manufacturing. Three hours attendance. Six hours laboratory. Three hours credit.

Miss Day

12. **Manufacturing Pharmacy**.—11 continued. Three hours attendance. Six hours laboratory. Three hours credit. Second semester.

Miss Day

13. **Assaying**—Pharmaceutical or pharmacological assaying. Two to five hours attendance. Six to ten hours laboratory. Two to five hours credit. First semester. Professor Lyman, Adjunct Professor Perusse

14. **Assaying**—13 continued. Two to five hours attendance. Six to ten hours laboratory. Two to five hours credit. Second semester.

Professor Lyman, Adjunct Professor Perusse

## PHYSIOLOGY

Professor Guenther

1. **General Animal Physiology**—A consideration of the facts and theories underlying the functions of muscle and nerve, of secretion, digestion, absorption, blood and lymph, circulation, respiration, animal heat, metabolism, the central nervous system, special senses and reproduction. A combined lecture, demonstration and laboratory course. Two hours lecture. Three hours laboratory. Two hours credit. First semester.

Professor Guenther

2. **General Animal Physiology**—1 continued. Second semester.

Professor Guenther



# The School of Fine Arts

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

\*PHILIP JOHN HARRISON, A.B., Registrar and University Publisher.

SARA SHEWELL HAYDEN, Director of the School of Fine Arts.

HENRIETTA McELROY BROCK, Instructor in China Painting.

WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts.

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy, instructing in Aesthetics.

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\*Resigned.

## GENERAL INFORMATION

**Objects.** The School of Fine Arts is organized in the belief that education in Art is as needful for a liberal culture as it is for the training of those who expect to devote themselves to art professionally. Work in the School is, accordingly, planned along two lines:

(1) It gives practical, technical training in drawing, painting, clay modeling, ceramics, etc.

(2) It provides instruction in art criticism,—the applied criticism of the studio, as well as historical, comparative, and theoretical studies. Work in this field is essential to students expecting to make art a profession, whether as teachers or producers, and it is valuable also to others who desire a broad and liberal culture.

**Location and Equipment.** The School of Fine Arts occupies rooms on the third floor of Library Hall. The class rooms are well lighted, attractive and completely equipped with easels, frames and casts. The Fine Arts Gallery, a fire-proof, well lighted room, fitted with two hundred electric lights, is sixty by seventy feet in dimensions. Here are held minor exhibitions, and the annual mid-winter exhibitions by the Nebraska Art Association, of paintings by leading American and foreign artists. The gallery contains the paintings purchased at the annual exhibitions by the Nebraska Art Association, among which are Andre Dauchez's *The Reefs*, Potthast's *The Waning Day*, Harrison's *Harvard Bridge*, Lucy Conant's *The Marshes*, Symon's *Autumn*, and Elizabeth Nourse's *Petit Paysanne de Bretagne*, Barnard's *The Landmark*, Eaton's *Canal at Bruges*. It is equipped also with a collection of casts which has been increased recently by an important purchase conjointly with the Nebraska Art Association of \$700 worth of fine reproductions from the antique.

## COURSES OF INSTRUCTION

Courses are free to all students of the colleges of the University, except where fees are named in connection with certain courses. The fees include the use of the studios.

## TECHNIQUE OF THE FINE ARTS

Director Hayden, Mrs. Brock

1. **Elementary Drawing**—Drawing from geometric solids, still-life, and antique fragments in outline and in light and shade. Study of values in charcoal and pencil. Designed especially for students in the Mechanic Arts

and the Natural Sciences, and for students in the Teachers College. Two hours per week with instructor; assigned exercises. One hour credit. First semester.

Miss Hayden

2. **Elementary Drawing**—Course 1 continued. Second semester.

3. **Lecture Course**—Lectures on the technique and terminology of modern painting, in connection with and illustrated by the Annual Exhibition of the Nebraska Art Association. Two lectures a week during the four weeks of the Exhibition; readings and reports. One hour credit for attendance during three Exhibitions.

Miss Hayden

4. **China Painting**.—Conventional and the application of original design on china. One hour credit. First and second semesters.

Mrs. Brock

### FEE COURSES

The following courses consist of individual instruction, with fee. College credit is given at the discretion of the instructor, not exceeding a total of four hours. In courses 5, 6, 7, 8, 9, 10, 11, and 12, the fees are for one lesson per week, \$10; for two lessons, \$18; for three lessons, \$25.

5. **Introductory Drawing and Color Work**—Exercises in drawing with pencil and crayon and in water color, for beginners. Designed for those expecting to specialize in art work, either as teachers or producers. First semester.

Miss Hayden

6. **Introductory Drawing and Color Work**—Course 5 continued. Second semester.

7. **Advanced Drawing and Color Work**—Heads and figures in charcoal from the antique for the study of construction and as a preparation for working from life. Still-life and flower painting in oil and water color. Pen and ink with reference to the processes of reproduction. First semester.

Miss Hayden

8. **Advanced Drawing and Color Work**—Course 7 continued. Second semester.

9. **Life**—Drawing and painting from the costumed model. First semester.

Miss Hayden

10. **Life**—Course 9 continued. Second semester.

11. **Theory and Practice of Design**—Studies in the principles of design, with practical application to stenciling, embroidery, leather, metal work, china painting, etc. Twelve weeks only. First and second semesters.

Miss Hayden

12. **Practice in Decorative Art**—Practical work in basketry, crimplé sheet, metal work, and decorative leather. Classes formed on demand.

Miss Hayden

13. **China Painting**—Figure painting on porcelain; flower painting from nature; enamels. First and second semesters. Fees: one lesson a week, \$12; two lessons a week, \$23; three lessons a week, \$33.

(Special arrangements will be made for a shorter time.)

Mrs. Brock

14. **Evening Sketch Class**—A studio sketch class, held one evening each week. Free to students entered in any fee-bearing course in the School of Fine Arts. All others, \$3 a semester. Miss Hayden

15. **Teachers' Advanced Course**—Work suitable to the individual needs of those teaching or expecting to teach in the public schools.

Miss Hayden

## HISTORY AND CRITICISM OF THE FINE ARTS

Professor Dann

The courses open to students in this department of the School of Fine Arts are listed under the sub-head of "Fine Arts" in the department of Greek Language and Literature, courses 40, 41, 42, 43, 44, 45, and 46, and are described in detail under the department heading in the general "Courses of Instruction" (pages 146-149). These courses consider, in addition to biographical and historical studies, the fundamental principles of aesthetic criticism; the form and spirit of art in relation to nature, to science, and to life; the conventions of architecture, sculpture, and painting. They consist of lectures and discussions in class, readings, and, preparation of papers on assigned topics.

## AESTHETICS

Professor Alexander

The courses in Aesthetics are those listed in the general "Courses of Instruction" (page 162) as Philosophy 41, 42 and 50, and must be registered for as such. These courses are designed primarily for third and fourth year students of the Colleges of the University. It is expected that Art students entering them will have had preliminary work in the technical or historical courses. All students registering for Philosophy 41 are urged to take in connection therewith the Technique of Fine Arts course 3 ("Lecture Course"). Students may register synchronously for 42 and 50.



# Roster of Students and Degrees

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## DEGREES CONFERRED IN 1909-1910\*

## Mid-Winter Commencement—1910

## THE COLLEGE OF ARTS AND SCIENCES

*Bachelor of Arts*—1  
Mary Elizabeth Skinner

## THE TEACHERS COLLEGE

*Bachelor of Arts*—1  
Mabel Jeanette Faus

## THE COLLEGE OF ENGINEERING

*Bachelors of Science*—10

Kinju Akagi	Frank Warren Johnson
Ruppert Hiram Bailey	Charles Edward Miller
William Hewit Blanchard	Martin Ernst Strieter
William F. Chaloupka	Harry Lloyd Unland
Arthur Everette Ingersoll	Vicente Pio Villanueva

## THE COLLEGE OF LAW

*Bachelors of Law*—2  
Archibald Manly Smith

## THE GRADUATE COLLEGE

*Masters of Arts*—2

Henry Walter Barre, B. S. 1905 Clemson College, B. Sc., 1907, The University of Nebraska  
Ellery Knapton Files, B. Sc., 1908, Nebraska Wesleyan University

## June Commencement—1910

## THE COLLEGE OF ARTS AND SCIENCES

*Bachelors of Arts*—90

John Merriam Alexander	Edith Alma Forrest
Emma Nathalia Anderson	Irma May Franklin
James Albert Ayres	Roy Fuller Greenslit
Lewis Wittmann Baker	Paul Rolfe Halligan
Mary Leona Baker	Bertha Lillian Hallowell
Harvey Leigh Ballenger	Hazel Dell Hanna
Eleanor Barbour	Faye Marie Hartley
Clinton Mahlon Brown	Mary Otis Herbert
Elfrida Constance Buddenberg	Emma Edna Hewit
Roselle Otis Burris	Kathleen Hockstrasser
Charlotte Matilda Bushnell	Adaline Mildred Holland
Ora Edna Bushnell	Stanley McCook Huffman
Ruby Geneva Clark	Clara Louise Hunt
James Alexander Cline	Josephine Celeste Huse
William Earl Coleman	Ruth Millikan Jakway
Myra Conner	Earle George Johnson
Mary Elizabeth Cook	Howard Ransome Kennedy
Odyne Omega Cornell	Ruby Rosamond Knepper
Albert Warren Dann	Ernest Lewis Kretzinger
Kathleen Remine Doyle	Dale Lapp
Vernon Atwell Dunlavy	Lora Jeanette Lawrence
Florence Dye	Effie May Longman
Clayton Harold Eaton	Josephine Fidelia Loomis
Joseph Francis Ebert	Thomas Johnson McDaniel
Glen Gray Fordyce	Mary Rose Malone

\*Since this catalog is printed before the June and July graduation exercises held at the close of the University year, 1910-1911, the names here published are of those who were granted degrees between September 1, 1909, and September 1, 1910, which dates mark a regular University year.

These time limits also obtain with respect to certificates granted.

Ann Wilson Miller  
 Claude William Mitchell  
 Carl Leland Modesitt  
 Walter Albert Monson  
 Loring Edwin Morgan  
 Estelle Rees Morrison  
 Golda Bessie Nelson  
 Minnie May Newman  
 Frank E. Northrop  
 Erich von Nusbaum  
 John Edgar Okey  
 Arthur Lundin Palmer  
 Clifford Manley Penney  
 Harry Otis Perry  
 Laura Anna Pettijohn  
 Herbert William Potter  
 Alfreda Powell  
 Florence Edna Riddell  
 August Carl Schmidt  
 John Aaron Scotney

Elizabeth Mary Shaffer  
 Grace Pauline Shallenberger  
 Howard Martin Sheaff  
 Wilbur Henry Simons  
 Arthur Andrew Smith  
 Edna Bertha Steven  
 Robinson Meredith Switzler  
 Cora Lee Wallace  
 George McCready Wallace  
 Welden Harrison Warren  
 Agnes Wilhelmina Weckbach  
 Alfred Edward Westervelt  
 Grace Margaret Wheeler  
 Anna Grace White  
 George Washington White  
 Luther Emanuel Widen  
 Edith Wilson  
 James Edward Woods  
 Paul Emmer Yates  
 Gary Garfield Young

*Bachelors of Science—18*

Roscoe Conklin Abbott  
 Harry Dilmian Boswell  
 Sherman Blaine Hibbard  
 Earl Henry Jorgenesen  
 John Harry Linson  
 Walter Phelps Loomis  
 Guy Raymond McDole  
 Allen Grant McNeal  
 Samuel Arthur Mahood

Lawrence E. Newell  
 George Peyton Pratt  
 John Clarence Resler  
 Walter Arthur Spencer  
 John Torrence Tate  
 Jesse Day Taylor  
 James C. Tucker  
 Richard Orin Webster  
 John Todd Zimmer

## THE TEACHERS COLLEGE

*Bachelors of Arts—61*

Christine Anderbery  
 Selma Sophia Anderson  
 Lucia Maria Arends  
 Pearle Arnot  
 Esther Bailey  
 Ruth Mary Bates  
 Lulu Fay Beekly  
 Annie Bellati  
 Charles Clinton Berkey  
 Rachel Nellie Blodgett  
 Charles Dudley Bohannan  
 Bessie May Brenizer  
 Mathilde Elizabeth Brugger  
 Ellen Elizabeth Cannell  
 Marie King Carriger  
 Alice Eliza Compton  
 Fannie Riggs Conkling  
 Myra May Cook  
 May Delima Dion  
 Katherine Follmer  
 Lois Beatrice Fossler  
 Mary Alice Frum  
 Aileen Gaunt  
 Maggie May Patton Gehrke  
 Blanche Deborah Given  
 Marie von Goetz  
 James Edward Hardiman  
 Teresa Edith Hempel  
 Katherine Hole  
 Rachel Edna Holmes  
 Beula Luella Jennings

Jennie May Kates  
 Grace Jennie Kimmel  
 Benjamin True Kess  
 Venus Una Leamer  
 Jessie Alice Lee  
 Katherine Little  
 Bertha Musson Luckey  
 George Paul Luckey  
 Helen Anna Lykke  
 Mabelle Rae McVeigh  
 Coralie Henrietta Meyer  
 Ada Mabel Morgan  
 Ida May Myatt  
 Bertha Neale  
 Mabel Esther Nelson  
 Emma Caroline Osborn  
 Ada Emily Ostrander  
 Mary Eudora Persinger  
 Elsie Katherine Rokahr  
 Jessie Frances Safford  
 Blanche Kathryn Sperling  
 Sarah Louis Stegner  
 Nina Adelaide Tewksbury  
 Bashie Beth Tully  
 Katheryn Elizabeth Wagner  
 Winifred Waters  
 Dorothea Weaver  
 Charlotte Wilke  
 Ina Jeanette Williams  
 Beatrice Susan Wilson

*Bachelors of Science—5*

Ellen Victoria Anderson  
 Edna Elizabeth Bryan  
 Mabel Violet VanCamp

Bertha Watson  
 Lenora Olive Wolfanger

## THE UNIVERSITY OF NEBRASKA

## THE COLLEGE OF AGRICULTURE

*Bachelors of Science—9*

Loren LeRoy Bishop  
 Carl Alexander Brodrick  
 Carl Fred Chase  
 Vere Sanford Culver  
 Harold Hubert Greenamyre

Fred Wenzl HofMann  
 Mauricio Lazo  
 Edgar Garwood Polleys  
 Arthur Thaddeus Upson

## THE COLLEGE OF ENGINEERING

*Bachelors of Science—51*

Henry Otto Baumann  
 Walter Nelson Boazth  
 William Henry Burleigh  
 William Edward Byerts  
 Robert Erle Campbell  
 Horace Jackson Cary  
 Clinton Harvey Chalmers  
 Jesse Maynard Clarke  
 Robert Leeroy Cochran  
 Gordon Edward Davis  
 Willard Alton Davison  
 Harold LaSelle Fiske  
 Gerald Walton French  
 Homer Edward Grosbach  
 Charlie Marks Hardin  
 Frederick Chapin Harding  
 Leonard Rhodes Heggelund  
 John Albert Hepperlen  
 John Cameron Hoge  
 George William Huey  
 Archie William Hummel  
 Claude Brownell Huston  
 Benjamin Parks Johnson  
 Wilbur August Jones  
 Charles David Kunkel  
 Harold Leicester LaChappelle

Karl Lorraine Ludwick  
 John Glenn Mason  
 Carl Wayne Mengel  
 D. C. Mitchell  
 Ohio Nebraska Munn  
 Hiram Edgar Newell  
 Harry Stilwell Nixon  
 Oscar Leonard Olson  
 William Joseph Provaznik  
 Jacob Arthur Ryan  
 Hugo Cyrus Schlueter  
 Clyde Payne Soderberg  
 Carl Frederick Spellmeyer  
 Arthur Dale Stancliff  
 Joseph Laurie Tatum  
 Charles Ernest Thornburg  
 John Guiles Trude  
 Ora Elmer VanBerg  
 Harry Seward Villars  
 William Talbot Vivian  
 Ralph Theodore Wenstrand  
 Frank Oren Wheelock  
 Vallery White  
 Walter Jacob Wohlenberg  
 Harry Elias Wolters

## THE COLLEGE OF LAW

*Bachelors of Laws—35*

John Hercules Agee  
 Ralph Lee Arnold  
 Homer Elhanan Aylsworth  
 Herbert Willis Baird  
 James Edmund Bednar  
 Maxwell Vance Beghtol  
 Arthur Maury Bunting  
 Levi Melville Burkey  
 Charles William Campbell  
 Herbert James Curtiss  
 George Alfense Doll  
 Henry Edwin Dress  
 Frank Arthur Dutton  
 Heinz Joseph Freitag  
 Otto Joseph Gatzmeyer  
 Vancil Kelso Greer  
 Frank P. Johnson  
 Grover Cleveland Long

Henry Sherman Lower  
 Daniel Michael McCarthy  
 Joseph Harney Morgan  
 Fred Truman Nichols  
 Hugo McLernon Nicholson  
 Frank August Peterson  
 George Curtis Proud  
 John Lawrence Rice  
 Edward Erle Richards  
 Robert F. Romans  
 David Simms  
 Alfonzo J. Sturzenegger  
 Lester Corwin Syford  
 Calvin Hill Taylor  
 Albert Milton Thompson  
 Ralph Ernest Waldo  
 Charles Leroy Whitney

## THE COLLEGE OF MEDICINE

*Doctors of Medicine—16*

William Nance Anderson  
 George Buol  
 Harry Raymond Carson  
 Irving Samuel Cutter  
 Robert Glen Miller  
 Meyer Harris Newman  
 Justus Edgar Olsson  
 Roland Ray Reed

Charles Edward Remy  
 Frank Waldo Scott  
 Bryant Robert Simpson  
 Robert James Stearns  
 Charles Roy Stewart  
 Samuel August Swenson  
 Jeanette Franc Throckmorton  
 James Clyde Waddell

*Doctor of Medicine cum laude—1*

Charles Lieber, M. D.

*Degrees in Pharmacy—3*

Edwin Adolph Fricke

Jay Guy Rinker

Elsie Day

## THE GRADUATE COLLEGE

*Masters of Arts—18*

- Viola Florence Barns, A. B. 1909—English Literature, Germanics, American History  
 Emil August Boostrom, A. B., 1902—Botany  
 Berend John Brethouwer, A. B. 1909, Cotner University—Philosophy  
 Annis Sarah Chaikin, A. B. 1908—Greek, Latin, Germanics  
 Ellis Lincoln Edwards, B. Sc. 1905, University of Oklahoma—Geology, Geography  
 Clark Adelbert Fulmer, Ph. B. 1898, Nebraska Wesleyan University—Education, Educational Psychology  
 Edwin R. Guthrie, A. B., 1907—Philosophy

- Frank Elmer Howard, M. D. I. 1901, Iowa State Normal—Education  
 Della Elizabeth Ingram, A. B. 1907, Washington State College—Botany  
 Aurelia Koch, Ph. B. 1902, University of Chicago—Germanics  
 Emily Gertrude Moore, A. B. 1907—Germanics, English Language and Literature  
 Candis Jane Nelson, A. B. 1905—American History, Education  
 Mabelle Zoe Nims, A. B. 1908—Philosophy, Latin  
 Edward Palmer Pillans, B. D. 1899, Kentucky Theological Seminary; A. M. 1906, University of Chicago—Ethics, History of Philosophy  
 Sarah Agnes Ryan, A. B. 1893—Germanics, Educational Theory and Practice, Philosophy  
 Robert Douglas Scott, B. Sc. 1904, Kansas State College—English Language and Literature  
 Vernon Vilas Westgate, B. Sc. 1908—Horticulture  
 Cyrus Vance Williams, B. Ed. 1909, Peru State Normal—Botany

*Doctor of Philosophy—1*

- Franklin Davis Barker, A. B. 1898, A. M. 1900, Ottawa University—Zoology, Bacteriology

## Summer Session Graduation, 1910

## THE COLLEGE OF ARTS AND SCIENCES

*Bachelors of Arts—7*

- |                         |   |
|-------------------------|---|
| Walter Henry Buxton     | Joseph Clark Mitchell                                   |
| Elliott Cunningham Cobb | Ida Luella Rutledge                                     |
| Louis Jarrett Knoll     | Sherman Ray Wilson                                      |
| Gerhard Krueger         |   |
| Andrew Dobbie Brown     | <i>Bachelors of Science—2</i><br>Margaret Helena McLean |

## THE TEACHERS' COLLEGE

*Bachelors of Arts—3*

- Katharine Margaret Caldwell      Edward Marion Short      Theola Maude Linn

## THE COLLEGE OF ENGINEERING

*Bachelors of Science—2*

- |                   |                           |
|-------------------|---------------------------|
| Adolph Anton Neff | in Mechanical Engineering |
| Don French Smith  | in Electrical Engineering |

## THE COLLEGE OF AGRICULTURE

*Bachelors of Science—1*

- Martin Simon Jussel      in Agriculture

## THE COLLEGE OF LAW

*Bachelor of Laws—1*

Alfred Ernest Burr

## THE GRADUATE COLLEGE

*Masters of Arts—3*

- Loyd Ancile Jones, B. Sc., 1908—Physics  
 John Greenleaf Whittier Lewis, A. B., 1900, Grand Island College—American History  
 Alice McClellan Purinton, B. Sc., 1908—Physics

## CERTIFICATES GRANTED IN 1909-1910\*

## THE UNIVERSITY TEACHERS' CERTIFICATES—59

*Bachelors of Arts—56*

- |                       |  |
|-----------------------|--|
| Christine Anderbery   | Lulu Fay Beekly                              |
| Selma Sophia Anderson | Mathilde Elizabeth Brugger                   |
| Lucia Maria Arends    | Marguerite Rose Burke, 1909                  |
| Pearle Arnott         | Katharine Margaret Caldwell (Summer session) |
| Esther Bailey         | Ellen Elizabeth Cannell                      |
| Ruby Barnebey         | Marie King Carricker                         |

\*See foot-note on page 402.

Alice Eliza Compton  
 Fannie Riggs Conkling  
 Myra May Cook  
 May Delima Dion  
 Ruby Faus, 1909  
 Georgia Baldwin Field, 1907 (Summer session)  
 Katherine Follmer  
 Lois Beatrice Fossler  
 Mary Alice Frum  
 Maggie May Patton Gehrke  
 Blanche Deborah Given  
 Marie von Goetz  
 Teresa Edith Hempel  
 Katherine Hole  
 Rachel Edna Holmes  
 Beula Leulla Jennings  
 Jennie Mae Kates  
 Benjamin True Kess  
 Grace Jennie Kimmel  
 Gertrude Kincaide, 1909  
 Venus Una Leamer  
 Jessie Alice Lee

Theola Maude Linn (Summer session)  
 Katherine Little  
 Bertha Musson Luckey  
 George Paul Luckey  
 Helen Anna Lykke  
 Mabelle Rae McVeigh  
 Corale Henrietta Meyer  
 Bertha Neale  
 Mabel Ester Nelson  
 Ada Emily Ostrander  
 Mary Eudora Persinger  
 Elsie Katherine Rokahr  
 Jessie Francis Safford  
 Blanche Kathryn Sperling  
 Sarah Louise Stegner (Summer session)  
 Bashie Beth Tully  
 Katheryn Elizabeth Wagner  
 Winifred Waters  
 Dorothea Weaver  
 Charlotte Wilke  
 Ina Jeanette Williams  
 Beatrice Susan Wilson

*Bachelors of Science—3*

Ellen Victoria Anderson      Edna Elizabeth Bryan      Mabel Violet VanCamp

## SCHOOL OF AGRICULTURE—84

William Claassen Andreas  
 Charles Ernest Arnold  
 Sanborn Edward Booth  
 Frederick Herman Bormann  
 Christian Bernhard Bull  
 Lloyd Albert Busch  
 James Stewart Cacy  
 Russell Eugene Campbell  
 John Jansen Claassen  
 Howard Henry Cone  
 Harry Alonzo Cummings  
 Elliott Register Davis  
 Royce Clinton Davison  
 William James Day  
 Thomas Fred Dysart  
 Henry Robert Fausch  
 Anton Bedrich Fiala  
 Arthur Dewitt Fitch  
 John Casper Forburger  
 Lena Marie Forburger  
 Cyrus Grant Emerald Ford  
 Raymond J. Francis  
 Oscar Fred Frederickson  
 Leon Oric George  
 Harry Garvin Gould  
 Samuel Thomas Harrison  
 John William Hawley  
 Charles Calvin Higgins  
 Herman Hofmeyer  
 Saumel Lloyd Hood  
 John William Horsh  
 Charles Oliver Hurtt  
 William Clyde Hutchinson  
 Russel Raymond Isham  
 Albert Burton Jones  
 Delmar Noble Johnson  
 Roy Rex Johnson  
 Benjamin Verne Kauffman  
 Ethel Letta Kindig  
 Michael Edward William Kraxberger  
 Melville Milton Linder  
 Grace Long

Heman Ernest Babcock  
 Howard Edward Barrett  
 Fred Palmerlee Loomis  
 Raymond Dennett Lynn  
 John Ernst Ludden  
 Edwin Lawson Dayenport McNeal  
 Elmer Eugene Matson  
 Don Deal Maxfield  
 Benjamin Harrison Mills  
 Edward Jacob Monnich  
 Albert Clayton Morrissey  
 Llewelyn E. Morris  
 Kenneth Earle Nash  
 Herman Arthur Nelson  
 Irvin Andrew Nelson  
 Otto Clarence Nelson  
 Homer LeRoy Nye  
 Harry Allen Pease  
 Ernest Theodore Person  
 John Henry Pierce  
 David Rees  
 Andrew Joseph Reid  
 George Burton Riggs  
 Ruth Harriett Ritchie  
 Ernest Schneider  
 Benjamin Lyman Schober  
 Walter Oscar Schoenbeck  
 Frank S. Soukup  
 Ray Leon Stephenson  
 Russell Alger Studley  
 Edwin Clarence Swanson  
 Ernest Elelm Tietze  
 Edith Tully  
 Frank Urban  
 Percy Godfrey Vogel  
 Chester Allen Arthur Webster  
 Merle Ethel Weyant  
 Ralph Brown Whitmore  
 Guy Emerson Wilcox  
 Mabel Agnes Wilson  
 Vera Bee Wilson  
 Carl Stanley Young

## SCHOOL OF MUSIC CERTIFICATES—21

Annie Laurie Beach	Hazel Lodge
Ethel Burkett	Florence Malone
Lulu Carnes	Ethel Eckerd Oltman
Bessie Fayville Chambers	Lillion Parfitt
Sarah Mabel Doran	Velma Cross Reed
Alma Fehner	Rosa Margaret Roecka
Jessie Belle Graves	Letta Russell
Florence Harford	Arvid Samuelson
Florence Marion Johnson	Linna Timmerman
Hazel Gertrude Kinscella	Marietta Matteson Wemple
Lulu Marye Lakin	

## PHYSICAL EDUCATION CERTIFICATES—3

Myra Conner                    Mary Otis Herbert                    Lora Jeanette Lawrence

## STATE MILITARY COMMISSIONS—35

## IN THE UNIVERSITY

Major—Vallery White  
 Captains—Arthur Everette Ingersoll, Samuel Arthur Mahood, August Carl Schmidt, John Aaron Scotney, Martin Ernst Strieter, Arthur Thaddeus Upson, Carl Leland Modesitt, Horace Jackson Cary  
 First Lieutenants—Clyde Payne Soberberg, Oscar Leonard Olson, William Edward Byerts, Harry Otis Perry, Roselle Ottis Burris  
 Second Lieutenant—Harvey Leigh Ballenger

## IN THE SCHOOL OF AGRICULTURE

Major—Harry Garvin Gould  
 Captains—Samuel Lloyd Hood, Russell Raymond Isham, Albert Clayton Morrasay, Kenneth Earl Nash, Homer LeRoy Nye  
 First Lieutenants—Christian Bernhard Bull, John Casper Forburger, Charles Oliver Hurt, Delmar Noble Johnson, Benjamin Verne Kauffman, Michael Edward William Kraxberger, Elmer Eugene Matson  
 Second Lieutenants—Arthur DeWitt Fitch, Cyrus Grant Emerald Ford, Roy Rex Johnson, Irvin Andrew Nelson, Ernest Schneider, Guy Emerson Wilcox, Chester Allen Arthur Webster

## GRADUATE STUDENTS IN 1910-1911—209

## Candidates for Degree of Doctor of Philosophy

Allen, Mattie . . . . .	A. B. 1900, A. M. 1905, The University of Nebraska Education, Sociology	Ansley
Aul, William Eugene Adolphus . . . . .	B. S. 1897, M. S. 1899, Battle Creek College Education, American History	College View
Barns, Viola Florence . . . . .	A. B. 1909, A. M. 1910, University of Nebraska American History, English Literature	Albion
Bishop, Edward Charles . . . . .	B. Sc. 1906, Nebraska Wesleyan University Agricultural Education, Economics, Geography	Lincoln
Brethouwer, Berend John . . . . .	A. B. 1909, Cotner University, A. M. 1910, University of Nebraska Philosophy, Education	Kenesaw
Currens, Frederick Hawley . . . . .	A. B., 1904, A. M., 1907, Coe College Chemistry, Bacteriology	Omaha
Elmore, Clarence Jerome . . . . .	A. B. 1895, A. M. 1896, University of Nebraska Botany, Geology	Grand Island
Gilmore, Melvin Randolph . . . . .	A. B. 1904, Cotner University; A. M. 1909, University of Nebraska Botany, Geography	Bethany
Jackson, William Roberts . . . . .	A. B. 1902, A. M. 1904, University of Nebraska Education, Political Science	University Place
Johnstone, Harvey Melanchthon . . . . .	A. B. 1902, A. M. 1906, Cotner University Philosophy, American History	Lincoln
Krueger, John Fritz . . . . .	A. B. 1903, Midland College Political Science and Sociology, American History	Lincoln
Lester, Claud Frederick . . . . .	B. S. 1903, Middlebury College, A. M. 1908, Columbia University American History	Lincoln
Needham, Daisy Jeanette . . . . .	A. B. 1907, A. M. 1909, University of Nebraska European History	Bostwick
Pfeiffer, Laura Belle . . . . .	A. B. 1897, A. M. 1906, University of Nebraska European History	Lincoln
Pillans, Edward Palmer . . . . .	B. D. 1899, Kentucky Theological Seminary; A. M. 1906, University of Chicago Philosophy, Political Science and Sociology	Lincoln
Pool, Raymond John . . . . .	A. B. 1907, A. M. 1908, University of Nebraska Botany, Geography	Lincoln
Runge, Lulu Lillian . . . . .	A. B. 1905, A. M. 1909, University of Wisconsin Mathematics	Madison, Wis.
Scott, Robert Douglas . . . . .	B. Sc. 1904, Kansas State Agricultural College; A. M. 1910, University of Nebraska. English Language and Literature, Psychology	Lincoln
Sowell, James William . . . . .	A. B. 1900, A. M. 1903, Gallaudet College English Language and Literature, Education, Educational Psychology	Omaha
Sturdevant, Lazelle Brantley . . . . .	A. B. 1902, B. Sc. 1903, A. M. 1905, M. D. 1909, University of Nebraska Bacteriology, Zoology	Lincoln
Sullivan, Mary . . . . .	A. B. 1898, A. M. 1900, University of Nebraska English Literature	Omaha

Swenk, Myron Harmon . . . . .	Lincoln
A. B. 1907, A. M. 1908, University of Nebraska Botany, Entomology	
Williams, Cyrus Vance . . . . .	University Place
B. Ed. 1909, Peru State Normal, A. M. 1910, University of Nebraska Botany, Zoology	

**Candidates for the Degree of Master of Arts**

Andersen, Emma Nathalia . . . . .	Ames
A. B. 1909, University of Nebraska Botany	
Anderson, Selma Sophia . . . . .	Omaha
A. B. 1910, University of Nebraska Greek, Latin, German	
Atherton, Loren George . . . . .	York
A. B. 1906, University of Iowa; M. S., 1908, Christian College Zoology	
Atkins, Will Everett . . . . .	Lawrence
B. S. 1901, Nebraska Wesleyan University Education, Political Science	
Axtell, Evelyn Susie . . . . .	Lincoln
A. B. 1908, University of Nebraska German, American History	
Bates, Ruth Mary . . . . .	Lincoln
A. B. 1910, University of Nebraska Botany	
Benson, Clement L . . . . .	College View
A. B. 1905, Union College English Literature	
Bishop, Earl Stephen . . . . .	University Place
B. Sc. 1909, Nebraska Wesleyan University Agricultural Chemistry	
Boardman, Leland James . . . . .	Little Valley, N. Y.
A. B. 1910, Oberlin College Physics, Mathematics	
Burdick, Burton Albert . . . . .	University Place
A. B. 1906, Nebraska Wesleyan University American History	
Carroll, Charles Eden . . . . .	Lincoln
A. B. 1905, Morningside College Political Science and Sociology	
Caviness, Leon Leslie . . . . .	College View
A. B. 1906, University of Michigan Germanics	
Chase, Celia Mary . . . . .	University Place
Ph. B. 1908, University of Chicago American History	
Cherry, Charles LeRoy . . . . .	University Place
A. B. 1908, University of Nebraska Education, Philosophy	
Cherry, Edward LeGrande . . . . .	University Place
A. B. 1908, University of Nebraska Education, Philosphy	
Clippinger, Edgar . . . . .	Sutton
A. B. 1901, Doane College Educational Theory and Practice, Political Science and Sociology	
Coleman, William Henry . . . . .	Ogallala
A. B. 1909, Nebraska Wesleyan University Educational Theory and Practice, Philosophy	
Coons, George Herbert . . . . .	East Lansing, Mich.
A. B. 1908, University of Illinois Agricultural Botany	
Coopersmith, Samuel . . . . .	Durham, N. C.
A. B. 1910, University of North Carolina Zoology	
Corbin, Evelyn . . . . .	Beaver City
A. B. 1908, Cotner University Latin	

Crawford, Mary . . . . .	A. B. 1907, University of Nebraska English Literature, Psychology	Kearney
Culley, Jessie Margaret . . . . .	A. B. 1911, University of Nebraska English Language and Literature, Germanics	Loup City
Davis, Mary Myrle . . . . .	A. B. 1902, University of Nebraska Latin, English Literature	Lincoln
Davis, Searl S. . . . .	A. B. 1909, University of Nebraska Political Economy and Commerce	Lincoln
Day, Elsie . . . . .	A. B. 1908, Ph. G. 1910, University of Nebraska Botany, Pharmacology	Lincoln
Duncombe, Frances Evaline . . . . .	A. B. 1897, University of Nebraska English Language and Literature	Lincoln
Emerson, Rollins Adams . . . . .	B. Sc. 1897, University of Nebraska Agricultural Botany, Soils	Lincoln
Ernsberger, Iva Belle . . . . .	A. B. 1907, Ohio State University Mathematics	Norwalk, Ohio
Feeemster, Silas Calvin . . . . .	A. B. 1907, Drury College American History	York
Feeemster, Howard Calvin . . . . .	A. B. 1909, Drury College Mathematics	York
Field, John Wesley . . . . .	A. B. 1910, Union College European History, Philosophy	College View
Filley, Horace Clyde . . . . .	A. B. 1903, University of Nebraska, B. Ed. 1906, Peru State Normal Agronomy	Beatrice
Foote, Paul Darwin . . . . .	A. B. 1909, Adelbert College of Western Reserve University Physics	Lincoln
Gardner, William Henry . . . . .	A. B. 1910, Nebraska Wesleyan University Agromony, Animal Husbandry	University Place
Gish, Oliver Holmes . . . . .	B. S. 1908, Kansas State Agricultural College Physics	Lincoln
Gittings, Vern Wallace . . . . .	A. B. 1909, University of Nebraska Economic Geology, Applied Mechanics, Chemistry	Superior
Graf, Otto Julius . . . . .	A. B. 1904, Union College Philosophy, Political Science, and Sociology	Berrien Springs, Mich.
Graham, Mary Catherine . . . . .	A. B. 1909, University of Nebraska Chemistry	Lincoln
Grimm, Edith Anita . . . . .	A. B. 1909, University of Nebraska Latin, English Language, and Literature	Lincoln
Hallowell, Bertha Lillian . . . . .	A. B. 1910, University of Nebraska Latin	Kearney
Hartley, Luella Pierce . . . . .	A. B. 1880, Hillsdale College Political Science and Sociology	Lincoln
Hawes, Annie . . . . .	B. L. 1902, Nebraska Wesleyan University Political Science and Sociology	Lincoln
Hill, Cora Belle . . . . .	A. B. 1906, University of Nebraska Mathematics	Lincoln

## ROSTER OF STUDENTS

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Hiltner, Walter Garfield . . . . .	Lincoln
B. Sc. 1904, University of Nebraska; M. D. 1908 Harvard Political Science, Philosophy	
Hisey, Albert Samuel . . . . .	Lincoln
A. B. 1909, Nebraska Wesleyan University Philosophy, Political Science and Sociology	
Hoffman, Henry William . . . . .	Lincoln
A. B. 1904, University of Kansas Germanics	
Hofmann, Fred Wenzl . . . . .	Omaha
B. Sc. 1910, University of Nebraska Horticulture, Botany	
Hollingsworth, Austin Jerome . . . . .	Bethany
A. B. 1907, Cotner University Political Science and Sociology	
Holmes, Helma Lou . . . . .	Tecumseh
A. B. 1909, University of Nebraska Mathematics, Philosophy	
Hopt, Erwin . . . . .	Lincoln
B. Sc. 1909, University of Nebraska Agronomy	
Howard, Robert Francis . . . . .	Lincoln
B. Sc. 1908, University of Missouri Horticulture	
Hrbkova, Sarka . . . . .	Lincoln
A. B. 1909, University of Iowa English Language and Literature, Political Science and Sociology	
Hullhorst, Mary Frederica . . . . .	Lincoln
A. B. 1892, University of Nebraska German	
Huston, Ira Donald . . . . .	Surprise
A. B. 1907, Denison University English Language and Literature, Education	
Ireland, Ethel Lena . . . . .	Gordon
A. B. 1910, Cotner University English Language and Literature, Philosophy	
Isham, Robert Melyne . . . . .	Toronto, Canada
A. B. 1909, Nebraska Wesleyan University Chemistry	
Jacobs, George Martin . . . . .	Bethany
A. B. 1907, Cotner University Chemistry	
Jensen, John Christian . . . . .	University Place
B. Sc. 1909, Nebraska Wesleyan University Physics	
Johnson, Earle George . . . . .	Fremont
A. B. 1910, University of Nebraska Physiology, Bacteriology	
Jones, Ada Magee . . . . .	Roanoke, Mo.
A. B. 1908, University of Missouri Romance Languages	
Jury, Jessie Belle, . . . . .	Lincoln
A. B. 1896, University of Nebraska Greek, Latin, English Literature	
Jussel, Martin Simon . . . . .	Indianola
B. Sc. 1910, University of Nebraska Agronomy, Botany	
Kanaga, Paul Hartzler . . . . .	Lincoln
B. Sc. 1909, Ohio Wesleyan University Germanics, Physics	
Keller, Esther . . . . .	Lincoln
A. M. 1908, University of Nebraska Germanics	
Kendrick, Raymond Henderson . . . . .	Lincoln
B. S. 1910, Greenville College American History	
Kenny, Raymond Everett . . . . .	University Place
A. B. 1909, Indiana University American History	

Kline, Howard Esher . . . . .	A. B. 1909, Nebraska Wesleyan University	University Place
	Latin	
Kruckenbergs, Minnie Edith . . . . .	A. B. 1909, University of Nebraska	Lincoln
	Germanics	
Lamb, George Newton . . . . .	B. Sc. 1909, University of Nebraska	Lincoln
	Botany	
Lapp, Dale . . . . .	A. B. 1910, University of Nebraska	Nelson
	Botany, Philosophy	
Leavitt, Frederick William . . . . .	A. B. 1895, Doane College	Franklin
	English Language and Literature	
Lee, Jessie Alice . . . . .	A. B. 1910, University of Nebraska	Lincoln
	Botany	
Long, Edith . . . . .	A. B. 1888, Cornell University	Lincoln
	Mathematics	
Longman, Effie May . . . . .	A. B. 1910, University of Nebraska	Bethany
	English Language and Literature, Rhetoric	
Loomis, Lucinda Bills . . . . .	A. B. 1903, University of Nebraska	Lincoln
	European History	
Luckey, Bertha Musson . . . . .	A. B. 1910, University of Nebraska	Lincoln
	Psychology, Education	
Luckey, George Paul . . . . .	A. B. 1910, University of Nebraska	Lincoln
	Physics	
McCallums, Jessie Eugenia . . . . .	B. Sc. 1902, University of Nebraska	Lincoln
	Chemistry	
McConnell, Florence S. . . . .	A. B. 1900, University of Nebraska	Lincoln
	English Literature	
McDole, Guy Raymond . . . . .	B. Sc. 1910, University of Nebraska	University Place
	Agricultural Chemistry	
Mahood, Samuel Arthur . . . . .	B. Sc. 1910, University of Nebraska	Columbus
	Chemistry	
Mann, William Rufus . . . . .	A. B. 1909, Doane College	Eagle
	Chemistry	
Marcellus, Edward Winifrid . . . . .	A. B. 1909, Northwestern University	Crete
	Philosophy	
Mattill, Andrew Jacob . . . . .	B. Sc. 1910, Northwestern College	Falls City
	Chemistry, Physics	
Mayland, Dorothy Sophie . . . . .	A. B. 1909, University of Nebraska	Seward
	Germanics	
Medlar, Edgar Matthias . . . . .	B. Sc. 1908, Doane College	Crete
	Zoology	
Mitchell, Claude William . . . . .	A. B. 1910, University of Nebraska	Lincoln
	Zoology	
Mitchell, Joseph Clark . . . . .	A. B. 1910, University of Nebraska	Lincoln
	American History, English Literature	
Monroe, Ernest Franklin . . . . .	LL. B. 1904, A. B. 1907, University of Nebraska	Shelton
	Educational Theory and Practice, Political Science and Sociology.	

Morgan, Jennie Amelia . . . . .	A. B. 1905, Nebraska Wesleyan University English Language and Literature, Rhetoric	University Place
Morrell, Emma Enid . . . . .	A. B. 1905, University of Nebraska English Literature, Sociology	Palmyra
Morrison, Alice . . . . .	B. S. 1908, Amity College English Language and Literature, American History	College Springs, Iowa
Morrison, Estelle Rees . . . . .	A. B. 1910, University of Nebraska English Language and Literature, Rhetoric, Philosophy	Lincoln
Morrison, Harvey Arch . . . . .	B. Sc. 1900, Union College Mathematics	College View
Morton, William Henry Stephenson . . . . .	A. B. 1909, York College Educational Theory and Practice	Fairmont
Nichols, Charles Leslie . . . . .	B. S. 1907, Franklin College Civil Engineering	Lincoln
Von Nusbaum, Erich . . . . .	A. B. 1910, University of Nebraska Political Science and Sociology	Eagle
Olmstead, Lewis Bertie . . . . .	B. Sc. 1909, University of Nebraska Physics	Lincoln
Petersen, Niels Frederick . . . . .	A. B. 1907, University of Nebraska Botany	Plainview
Phelps, Sarah Louise . . . . .	A. B. 1902, University of Nebraska Germanics, English Literature	Schuyler
Pillsbury, Susan . . . . .	A. B. 1897, University of Nebraska Latin, Italian	Lincoln
Pipal, Francis John . . . . .	A. B. 1908, University of Nebraska Botany, Forestry	Lincoln
Piper, Jennie Louise . . . . .	A. B. 1904, University of Nebraska European History	Lincoln
Poynter, Charles William McCorkle . . . . .	M. D. 1902, B. Sc. 1905, University of Nebraska Histology	Lincoln
Puffer, Lewis Morgan . . . . .	Ph. B. 1898, Hamlin University Chemistry	Lincoln
Reed, Albert Alison . . . . .	A. B. 1898, University of Nebraska Education, English Literature	Lincoln
Reeves, William Marshall . . . . .	A. B. 1896, Northwestern Christian College, Ph. B. 1897, Drake University Mathematics	Bethany
Reinsch, Frank Herman . . . . .	A. B. 1909, University of Nebraska Germanics	Lincoln
Resler, John Clarence . . . . .	B. Sc. 1910, University of Nebraska Physics	Lincoln
Rife, Raleigh Schuyler . . . . .	A. B. 1909, Doane College Political Economy and Commerce, Political Science and Sociology	Crete
Seidel, Caroline Pauline . . . . .	A. B. 1909, University of Nebraska English Language and Literature	Lincoln
Scarborough, Ray James . . . . .	A. B. 1909, University of Nebraska Geography	University Place

Schultz, Carrie Kate.....	A. B. 1908, University of Nebraska Political Science and Sociology	Tobias
Short, Mamie Frances.....	B. Sc. 1903, University of Nebraska Education	Lincoln
Show, John Harry .....	A. B. 1906, University of Nebraska Chemistry	South Omaha
Shugart, Nettie Wills.....	B. Sc. 1893, Doane College English Literature	Lincoln
Sprung, Annetta Mabel.....	A. B. 1902, University of Nebraska Germanics	Lincoln
Stetler, Carrie May.....	A. B. 1903, University of Nebraska English Language and Literature, Germanics	Lincoln
Swezey, Emma Josephine.....	A. B. 1909, University of Nebraska Romance Languages, American History	Lincoln
Syford, Constance Miriam.....	A. B. 1909, University of Nebraska English Literature, Romance Languages, Germanics	Lincoln
Tate, John Torrence.....	B. Sc. 1910, University of Nebraska Physics, Mathematics	Lincoln
Thompson, Warren Simpson.....	A. B. 1907, Nebraska Wesleyan University Philosophy, Sociology	University Place
Vail, Nellie Antoinette.....	A. B. 1909, University of Nebraska Botany, Educational Theory and Practice	Lincoln
Weaver, John Ernst.....	B. Sc. 1909, University of Nebraska Botany	Lincoln
Webster, Richard Orin.....	B. Sc. 1910, University of Nebraska Chemistry, Bacteriology	Lincoln
Wendland, Henry William .....	A. B. 1905, Doane College German	Clay Center
Whyman, Edith May .....	A. B., 1905, University of Nebraska English Literature	Lincoln
Wilhelmsen, Emma .....	A. B. 1902, University of Nebraska Education, Philosophy	St. Paul
Wilson, Bert .....	A. B. 1909, Cotner University Sociology	Bethany
Wise, Cora Elizabeth .....	A. B. 1903, University of Nebraska German, European History	Lead, S. D.
Wolfanger, Lenora Olive.....	B. Sc. 1910, University of Nebraska Botany, Zoology	Lincoln
Wolgamot, Winifred Olta.....	A. B. 1902, University of Nebraska Education	Lincoln
Worthley, Evans Alvah .....	A. B. 1908, Nebraska Wesleyan University Political Science and Sociology, Philosophy	Wilber
Zimmer, John Todd.....	B. Sc. 1910, University of Nebraska Entomology	Lincoln
Zook, Leslie Lewis.....	B. Sc. 1907, University of Nebraska Agronomy, Botany	Lincoln

## Candidate for the Degree of Electrical Engineer

Pierce, Paul Harold .....	Lincoln
B. Sc. 1911, University of Nebraska Electrical Engineering	

## Graduate Students Without Reference to a Degree

Andra, Emma Margaret .....	Lincoln
A. B. 1907, University of Nebraska	
Baker, Mary Leona .....	Lincoln
A. B. 1910, University of Nebraska	
Bates, Sarah Glazier .....	Lincoln
A. B. 1868, A. M. 1872, Vassar College	
Beattie, Ethel Blanche .....	Lincoln
A. B. 1898, University of Nebraska	
Bridenbaugh, Nell .....	Lincoln
A. B. 1908, University of Nebraska	
Buchan, Arlene Alice .....	Aurora
B. Sc. 1908, University of Nebraska	
Burrage, Dwight Grafton .....	Crete
A. B. 1897, A. M. 1899, Amherst College	
Clark, Grace Maria .....	Lincoln
A. B. 1907, University of Nebraska	
Coon, Sheldon Blaine .....	Stockham
B. Sc. 1909, University of Nebraska	
Crabtree, James William .....	Lincoln
A. M. 1908, University of Nebraska	
Drake, Fannie Adrienne .....	Broken Bow
A. B. 1906, University of Nebraska	
Ewing, Halle Laura .....	Lincoln
M. D. 1899, University of Michigan	
Field, Georgia Baldwin .....	Lincoln
A. B. 1907, University of Nebraska	
Garst, Virlinda Brittain .....	Lincoln
A. B. 1907, Missouri Valley College	
Gere, Mariel Clapham .....	Lincoln
B. Sc. 1895, A. M. 1899, University of Nebraska	
Gilmore, Charles .....	Lincoln
B. Sc. 1896, M. S. 1908, Geneva College	
Goodrich, Thomas Victor .....	Lincoln
A. B. 1904, University of Nebraska; A. M. 1908, University of Wisconsin	
Hainer, Julia Thurston .....	Lincoln
A. B. 1906, Leland Stanford University	
Hannah, Margaret Louise .....	Tilden
A. B. 1907, University of Nebraska	
Hargett, Anderson J. ....	Bethany
A. B. 1897, A. M. 1905, Kentucky University	
Harmon, Harvey Horace .....	Lincoln
A. B. 1896, University of Nebraska	
Harper, Ella Bradford .....	Lincoln
A. B. 1902, University of Nebraska	
Hedges, Mabel Maude .....	Lincoln
A. B. 1907, University of Nebraska	
Hewit, Emma Edna .....	Lincoln
A. B. 1910, University of Nebraska	
Hewitt, Lucy Rockwood .....	Lincoln
A. B. 1909, University of Nebraska	
Heyhoe, Albert George .....	Crete
A. B. 1906, A. M. 1908, Dartmouth College	
Holiday, Lillie Maurine .....	Lincoln
B. S. 1900, Union College	
Hollister, Lela Pilcher .....	Lincoln
B. Sc. 1905, University of Illinois; A. M. 1909, University of Nebraska	
Klein, Millard Alschuler .....	Lincoln
B. Sc. 1909, University of Nebraska	
Krueger, Johanna Pauline Dorothea .....	Lincoln
Diploma 1904, Ladies College, Ratisbus, Germany	
Lockwood, Margaret Matilda .....	Pittsford, Mich.
A. B. 1906, Michigan State Normal College	

Lynch, Annie Laurie . . . . .	A. B. 1910, Notre Dame	Lincoln
Lynch, Mary Alice . . . . .	A. B. 1905, Notre Dame	Omaha
McVeigh, Mabelle Rae . . . . .	A. B. 1910, University of Nebraska	Norfolk
Miller, Eleanora Tilbets . . . . .	A. B. 1900, A. M. 1902, University of Nebraska	Lincoln
Miller, Louise . . . . .	A. B. 1903, A. M. 1905, University of Nebraska	Lincoln
Orlofsky, Anna . . . . .	A. B. 1906, University of Nebraska	Lincoln
Philpott, Charles Wescott . . . . .	B. Sc. 1896, A. M. 1898, University of Nebraska	Lincoln
Pound, Olivia . . . . .	A. B. 1895, A. M. 1897, University of Nebraska	Lincoln
Richey, Justus Livingston . . . . .	A. B. 1909, University of Nebraska	Plattsmouth
Sargent, Mary Horne . . . . .	B. Sc. 1896, University of Nebraska	Lincoln
Stevens, Harland Uriah . . . . .	B. S. 1907, Union College	College View
Stevens, Inez Leona Hoiland . . . . .	A. B. 1908, Union College	College View
Syford, Lester Corwin . . . . .	A. B. 1907, LL. B. 1910, University of Nebraska	Lincoln
Towne, Harriet Estelle . . . . .	A. B. 1894, University of Nebraska	Lincoln
Vosacek, Frank Richard . . . . .	B. Sc. 1908, University of Nebraska	South Omaha
Walton, Charles Newton . . . . .	A. B. 1905, University of Nebraska	Wahoo
Whitehorn, Homer Austin . . . . .	A. B. 1908, Nebraska Wesleyan University	University Place
Williams, Hattie Plum . . . . .	A. B. 1902, A. M. 1909, University of Nebraska	Lincoln
Yont, Etta . . . . .	A. B. 1904, University of Nebraska	Lincoln

1910-1911

## ROSTER OF STUDENTS IN THE COLLEGES\*

Standing granted on the basis of

- (1) Baccalaureate Degree, (2) Thirty "Points" (Complete) or Twenty-four "Points" (Conditional) entrance to the Freshman Year, (3) "Adult Special" registration (At least twenty-one years of age.)

## Abbreviations

Letters indicates college and figure indicates year

A—College of Arts and Sciences; CA—College of Agriculture; T—Teachers College; E—College of Engineering; L—College of Law; M—College of Medicine; G—Graduate College; u—Unclassed, or "Adult Special."

Name	College and Year	Home Address
Abbott, Christopher J.	A 1	Hyannis
Ackerman, George Maurice	E 3	Ainsworth
Adams, Charles Glenn	L 2	Lincoln
Adams, Edgar Malcolm	L 1	Union, Ore.
Adams, Florence	Au	Lincoln
Adams, Lelia White	Au	Lincoln
Adams, Percy A.	A, (S)	Lincoln
Adamson, Esther Mary	T 4 (S)	Lincoln
Adkins, Stephen Corson	Mu	University Place
Adson, Alfred Washington	A 3, M 1	College View
Agor, Hugh	A 1	St. Paul
Aitken, Margaret	T, (S, F, A.)	Friend
Akagi, Kinju	E 4	Okayama, Japan
Albright, Edna Jennie	A, (S, Ex.)	Lincoln
Aldrich, Carl Milton, Jr.	E 2	Nebraska City
Aldrich, Ralph Johnston	E 1	Nebraska City
Alexander, Bess	T, (S)	Lincoln
Alldrift, Earl Cleo	Mu	Friend
Allem, Florence N.	T 4, (Ex.)	Lincoln
Allen, Ephriam David	CA 1	Clay Center
Allen, Jeanne	A 2	Valparaiso
Allen, Louis Baker, Jr.	A 2	Lincoln
Allen, Margaret Anna	Au, (SM)	Ansley
Allen, Mattie	G	Ansley
Allison, James Everett	E 1	Hastings
Allison, J. Ned	A 2	Sterling
Allyn, Arthur Ernest	A 1	Hastings
Alt, Eva May	T 1	Lincoln
Althonse, Everett John	T, (S)	Nelson
Alyea, Hazel True	A 1	Norfolk
Amberson, Alexander Boyd	E 4	Superior
Amerman, Ralph Kenneth	L 1	St. Joseph, Mo.
Ames, Burnham	E 1	Normal
Anderbery, Matilda Christine	A 4	Wakefield
Andersen, Emma Nathalia	G	Ames
Andersen, Ingvard Marius	A 2	Hardy
Anderson, Agnes Marguerite	A 2	St. Paul
Anderson, Andrew Emmett	A 2, (S)	Lincoln
Anderson, Andrew Victor	E 2	Lincoln
Anderson, Arthur Eugene	CA 2	Concord
Anderson, Carl Bernard	E 3	Nebraska City
Anderson, Charles Hervy	E 1	Genoa
Anderson, Christian Alfred	A 4	Genoa

\*Immediately following this roster appear the names of students registered primarily in a school or in University Extension work. No name appears on more than one roster. For definition of letters in parenthesis, see second roster immediately following.

Anderson, Ellen Louise . . . . .	A 3 . . . . .	Harlan, Ia.
Anderson, Elmer LeRoy . . . . .	E 2 . . . . .	Lincoln
Anderson, Ernest Gustave . . . . .	CA 1 . . . . .	Concord
Anderson, Ester Sanfreida . . . . .	T 1 . . . . .	Lincoln
Anderson, Eva Veronica . . . . .	T 1 . . . . .	Lincoln
Anderson, Lewis Robbins . . . . .	CA 3 . . . . .	Genoa
Anderson, Mamie . . . . .	T 1 . . . . .	Shelby
Anderson, Mildred Johanna . . . . .	Au, (S) . . . . .	Milford
Anderson, Selma Sophia . . . . .	G . . . . .	Omaha
Andra, Emma Margaret . . . . .	G, FA . . . . .	Lincoln
Andrews, Clayton Farrington . . . . .	A 1 . . . . .	St. Paul
Andrews, John Ainsworth . . . . .	E 1 . . . . .	Fremont
Andrews, Mitchell . . . . .	T, (S) . . . . .	College View
Andrews, Pansy . . . . .	T, (S) . . . . .	Lincoln
Andrews, Thomas Galpin . . . . .	L 1 . . . . .	Lincoln
Andrews, Vernon Daniel . . . . .	E 2 . . . . .	Lincoln
Anhaeuser, Amalia Ellen . . . . .	T 3 . . . . .	Omaha
Ankeny, Harry Ray . . . . .	L 2 . . . . .	Lincoln
Anselmo, Sister Mary . . . . .	T, (S) . . . . .	Omaha
Apgar, Flora Cassel . . . . .	T 1 . . . . .	Monroe, La.
Apperson, Catherine LaMaster . . . . .	A 1 . . . . .	Tecumseh
Arends, Edna Anna . . . . .	T 2 . . . . .	Syracuse
Arms, Louis Pliny . . . . .	E 2 . . . . .	Omaha
Armstrong, Ernest Frank . . . . .	L 2 . . . . .	South Auburn
Armstrong, Isabel Effie . . . . .	A 1, (SM) . . . . .	Lincoln
Armstrong, John Lord . . . . .	E 3 . . . . .	Filleys
Armstrong, Pearl Wittie . . . . .	A 2 . . . . .	Lincoln
Armstrong, Ralph Harold . . . . .	A 1 . . . . .	Greenwood
Armstrong, Robert McDowell . . . . .	L 1 . . . . .	Auburn
Armstrong, Vera Elizabeth . . . . .	CA 1 . . . . .	Wisner
Arnholz, Milton Frederick . . . . .	M 2, (S) . . . . .	Lincoln
Arnold, Aimee Fay . . . . .	T 2 . . . . .	Lincoln
Arnold, Frieda Elisabeth . . . . .	T 3, (SM) . . . . .	Lincoln
Arnold, Henry J. . . . .	T, (S) . . . . .	Sterling
Arterburn, Agnes Arrilda . . . . .	Au . . . . .	Lincoln
Arterburn, Carlos Efferson . . . . .	L 1 . . . . .	Lincoln
Asendorf, Bernhardt Herman . . . . .	CA 1 . . . . .	New Market, Tenn.
Ashby, Anna Cloe . . . . .	CA 1 . . . . .	New Market, Tenn.
Ashby, Fern Lee . . . . .	CA 1 . . . . .	Homer
Ashford, Margaret Geraldine . . . . .	A 1 . . . . .	Lincoln
Ashton, Harry Lloyd . . . . .	L 1 . . . . .	Hickman
Ashton, John Yates . . . . .	T, (S) . . . . .	Clatonia
Atchison, Guy Anson . . . . .	T 1 . . . . .	York
Atherton, Loren George . . . . .	G . . . . .	Seward
Atkins, Samuel Dykins . . . . .	CA 1 . . . . .	Lawrence
Atkins, Will Everett . . . . .	G, (S) . . . . .	University Place
Atwell, Clarence Allen . . . . .	E 2 . . . . .	Lincoln
Atwood, Elmina Gladys . . . . .	T 2 . . . . .	College View
Aul, William Eugene Aldophus . . . . .	G, (S) . . . . .	McCook
Austin, Baxter Blaine . . . . .	CA 1 . . . . .	Lincoln
Austin, Erma Vera . . . . .	A 2 . . . . .	Lincoln
Axtell, Evelyn Susie . . . . .	G, (S) . . . . .	Lincoln
Ayers, David . . . . .	Eu . . . . .	Lincoln
Ayers, Sarah Edith . . . . .	T 1, (S) . . . . .	Lincoln
Babbitt, Eunice . . . . .	Au . . . . .	North Platte
Babbitt, George DeWitt . . . . .	E 1 . . . . .	Florence
Bachoritch, Cecil James . . . . .	E 2 . . . . .	Fairbury
Badger, Mary Belle . . . . .	T 4 . . . . .	Fairmont
Bailey, Grace Ellen . . . . .	T, (S) . . . . .	Alvo
Bailey, Irene Lou . . . . .	A 3 . . . . .	Fairbury
Bailey, Sarah Florence . . . . .	CA 3 . . . . .	Cheney
Baird, John Elmer . . . . .	E 1 . . . . .	Lincoln
Baird, Sarah Adella . . . . .	Au, (S) . . . . .	Ruskin
Baker, Earl Elias . . . . .	A 1 . . . . .	Havelock
Baker, Ernest Clayton . . . . .	L 1 . . . . .	Lincoln
Baker, Luly Vesta . . . . .	Tu . . . . .	Havelock
Baker, Mary Leona . . . . .	G, (FA) . . . . .	Lincoln
Baker, Orville L. . . . .	CA 1 . . . . .	Sidney

## ROSTER OF STUDENTS

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Baker, Ruth Quinally	Au.	Lincoln
Baker, Susie Helen	A 2	Lincoln
Bald, Arno Albert	M 4	Aurora
Balderson, George Allen	Mu.	Wilber
Balderson, Jacob August	E 4	Wilber
Ball, Harry Ross	A 3	Hastings
Ballah, Arthur Blaine	A 1	Cambridge
Ballenger, Carrie Lucile	A 2	Lincoln
Barber, Bert M.	CA 3	Lewellen
Barbour, Charles Benjamin	CA 3	Scottsbluff
Barbour, Neal Andrus	CA 3	Scottsbluff
Barger, Vera Viola	A 4, (S)	Lincoln
Barker, Blanche Lucille	T 4	Lincoln
Barker, Earl Casswell	L 3	Lincoln
Barnard, Murray	CA 2, (S)	Beatrice
Barnard, Wilbur Dean	CA 2	Beatrice
Barnebey, Ethel	T, (S)	Lincoln
Barnes, Glenn Hambel	A 2	Fairbury
Barnes, Lloyd Andress	E 3	Lincoln
Barnett, Alma	A, (FA, S)	Lincoln
Barney, Howard	CA 2	Kearney
Barns, Ruby Elizabeth	A 4	Albion
Barns, Viola Florence	G	Albion
Barr, Louise	A 3	Lincoln
Barrett, Ella May	T 4	Hastings
Barstow, Adrian Foote	A 1	Lincoln
Bartlett, Agness Pauline	A 1, (HS)	Lincoln
Bartlett, Gertrude Tyler	Au, (SM)	Lincoln
Bartling, Paul	A 1	Nebraska City
Barton, Beth Pearl	T 4, (S)	Lincoln
Baskins, Conrad Leslie	L 1	North Platte
Bastron, Carl Henry	A 1	Lincoln
Basye, George Lee	A 3	Alliance
Bates, Bessie Sarah	CA 2	Lincoln
Bates, Eula Kathryn	A 3	Springfield
Bates, Ford E.	E 2	Springfield
Bates, Merton Ong	L 3	Belgrade
Bates, Ruth Mary	G	Lincoln
Bates, Sarah Glazier	G	Lincoln
Bates, William Laverne	A 2, (S)	Lodgepole
Bayard, Cornelia Hazel	Tu.	Lincoln
Beach, John Roy	A 2	Lincoln
Beach, Perley Isaac	E 3	Alliance
Beach, Vinnie	Au	Lincoln
Beachley, John Hiram	A 1	Lincoln
Beal, Bunice Ora	T 1	Superior
Beattie, Ethel Blanche	G, (FA)	Lincoln
Beatty, Robert Henry	L 2	Brady
Beaumont, Evelyn Nash	A 1	Lincoln
Beaumont, Gladys Norton	A 2	Lincoln
Beaver, Chester Adam	A 2	Lincoln
Bechter, Leo Allen	A 2	Pierce
Beck, Wesley Charles	E 1	Edgar
Becker, Wesley Charles	A 3, M 1	Lincoln
Beckhoff, Alexander Henry	CA 2	Theford
Beckman, Alfred William	A 3, L 1, (S)	Lincoln
Beckwith, Bruce Raymond	E 3	Red Cloud
Bedson, Grace Carrie	CA 1, (S)	Lincoln
Beecher, Mittie Mabel	A 4	Kearney
Beeler, Fenna Caroline	A 4, (S)	North Platte
Beeler, Rex Hugh	E 1	Norfolk
Beghtol, Jessie Gretchen	A 4, (S)	Lincoln
Behle, Lillie Ida	A 4, (S)	Oceola
Bell, Beulah	A 2	St. Paul
Bell, Dwight Day	L 3	Lincoln
Bell, Lucile	CA 2, (SM)	York
Bell, Percival Howell	A 3	St. Paul
Beltzer, Oren A.	L 2	Arapahoe

## THE UNIVERSITY OF NEBRASKA

Belville, Mae	Au	Thayer
Benetta, Sister Mary	T, (S)	Jackson
Benjamin, Clarence Leroy	CA 1	Arapahoe
Benner, Lloyd Elwood	A 2	Lincoln
Bennett, Charles Abel	E 4	Lincoln
Bennett, Grace Mildred	T 3	Lincoln
Benson, Charles Emil	A 4	Lincoln
Benson, Clement L.	G	College View
Benson, Luella	T, (S)	Lincoln
Bentley, Beth	T 1	Lincoln
Berg, Helene May	A 1	Geneva
Berg, Howard George	E 4	Pierce
Berger, Edmond Benjamin	E 3	South Omaha
Bergman, Fannie Helen	Au	Lexington
Bergman, Gunnard Edward	T, (S)	Lincoln
Bergman, Rose	A 1	Verona
Berquist, George Martin	E 1, (S)	Lincoln
Berquist, William Gerhardt	A 4, M 2	Loomis
Berry, Gertrude May	A 2	Bushnell
Berry, John Richard	E 1	Lincoln
Berry, Lela	A 3, T 3	Tecumseh
Bertrand, John Baptist	CAu	Fairbury
Bethune, Anna Helen	Au	Omaha
Bevins, Mildred Lorretta	CA 3	Lincoln
Bierman, Theodore H.	A 4	Omaha
Bigelow, Alfred Rufus	CA 1	Hastings
Bignell, Verna Jane	T 1	Fairbury
Biles, Edna	T 3	Lincoln
Biles, Jessie	T 4	Pender
Bills, Breta	A 4	Pender
Bingham, Izorah Cronch	T, (S, FA)	Lincoln
Birch, Bernice Adlen	Au	Lincoln
Birge, Alice Miranda	CA 4	North Platte
Birkby, Maude	A 4	Nebraska City
Birkner, Gisela Julia	T 2	Lincoln
Birmingham, Hugh J.	A 2	O'Niell
Bischof, George Hugo J.	E 4	Nebraska City
Bishop, Earl Stephen	G	University Place
Bishop, Edward Charles	G	Lincoln
Bishop, Harland Dale	E 2	Superior
Bishop, Roy Marcus	E 2	University Place
Bixby, Alice Lorena	A 1	Lincoln
Black, Harold Alsworth	E 2	Lincoln
Blackman, Marjorie Hart	A 3	Hastings
Blackmar, Raymond Carlton	E 1	Lincoln
Blackstone, George Blanchard	E 3	Craig
Blake, Ethel	A 3	Osceola
Blake, George Jacob	Eu	Lincoln
Blandin, Alma Claire	A 1	Western
Blish, Helen May	A 1	Omaha
Blish, Morris Joslin	CA 3, (SM)	Omaha
Bliss, Paul Phillip	L 1	Lincoln
Blodgett, Rachel Nellie	T, (S)	Raymond
Bloodorn, John Henrich	L 2	Franklin
Blomenkamp, August E. H.	A 2	Hastings
Bly, Mark Warren	A 2	Beaver City
Boardman, Leland Jaynes	G	Little Valley, N. Y.
Bocken, Herman	M 4	Harlan, Ia.
Bodley, Ralph Ewart	CA 3	Wahoo
Bochner, Edwin Christian	L 1	Lincoln
Bochner, Rupert August	Lu	Lincoln
Boggs, James Howard	A 1	Lincoln
Bohman, Harry Holman	CAu, (FA)	Schuyler
Bohmand, May	T, (S, Ex.)	Martel
Bolibaugh, Charles Godfrey	E 4	Holbrook
Bolibaugh, Ora Bevoly	M 1	Holbrook
Bolibaugh, William Robert	L 2	Lincoln
Bolinger, Hugh J.	A 4, M 2, (S)	Lincoln

## ROSTER OF STUDENTS

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Boltin, Annetta H.	Au.	Kearney
Bon, Leila Isabelle.	T 2	Oakdale
Bond, Mary Elizabeth.	T, (S).	Salt Lake City, Utah
Bonnell, Elizabeth.	Au, (SM)	Lincoln
Bonnell, Valeria.	T 2	Lincoln
Bonner, Adelbert Lester.	Au, (SM)	North Platte
Bookmeyer, Mary Barbara.	T 1	Plattsmouth
Borden, Clara Dayle.	T 2	Essex, Ia.
Bothwell, Katherine.	T, (S)	Lincoln
Bouchal, John Louis.	L 2	Wilber
Bouse, Helen Kathryn.	A 2, (SM)	David City
Bousfield, John Channing.	E 3	Auburn
Bowen, Bess.	T, (S)	Avoca
Bower, Ernest Harold.	Au.	Lincoln
Bowker, Leah.	CA 1.	Tekamah
Bowker, Reah.	CA 1	Tekamah
Boyce, John Shaw.	CA 4	Lincoln
Boyles, Dale Skiles.	L 2.	Alvo
Boyles, Flora Rose.	CA 1.	Alvo
Boynton, Robert Slothawer.	E 1	Adams
Bozarth, Genevieve Gertrude.	Au, (SM)	Hebron
Bozarth, Olive May.	Au, (SM)	Hebron
Bracken, Stanley.	E 3	Blair
Bradbury, Ora Geraldine.	T 2	Onawa, Ia.
Brady, Alonzo Carleton, Jr.	A 1	Lincoln
Bragg, Mattiene Benedict.	T, (S, Ex).	Alma
Brain, John Bell.	L 3	Omaha
Branigan, Marguerite Mary.	T 1	Norfolk
Brannon, Earl William.	A 1	Lincoln
Bratt, Lourene.	A 1, (SM).	Lincoln
Bratton, Lester George.	E 4	South Omaha
Breen, Leo Joseph.	A 2	South Omaha
Breese, Mabelle Olive.	A 3	Lincoln
Brenn, Joseph Patrick.	L 1	Plymouth
Brethouwer, Berend John.	G, (Ex).	Kenesaw
Bridenbaugh, Nell.	G, (S)	Lincoln
Bridenbaugh, Ruth Margaret.	T 1	Lincoln
Bridges, Mabel Luella.	Au.	Sterling
Briggs, Arch Lee.	E 4	Broken Bow
Brigitine, Sister M.	T, (S)	Jackson
Brininger, Fay Carrie.	A 1	Grand Island
Britt, Frances Mary.	T, (S)	Burwell
Brodrick, Hattie Mabel.	T 1	College View
Broman, Martin Robert.	A 1	Kearney
Brookman, Clarence Marvin.	Mu	Lincoln
Brother, George Howard.	A 2	Beatrice
Brown, Andrew Dobbie.	M 3	Lincoln
Brown, Benjamin Alonzo.	L 3	Lynch
Brown, Cora Maude.	T 2, (SM).	Sterling
Brown, Corol Edwin.	Mu	Lincoln
Brown, Edna May.	A 1	Lincoln
Brown, Elsie Emma.	A 3	Holdrege
Brown, Ethel.	T 3	Western
Brown, Eva Bernice.	Au, (SM)	Lyons
Brown, Gilbert Silas.	Lu.	Lincoln
Brown, Grace Ida.	T 3	Elba
Brown, James Laurence.	L 2.	Nebraska City
Brown, Joseph Michael William.	L 1.	Los Angeles, Cal.
Brown, June.	A 2, (SM)	Kearney
Brown, Mary Ellen.	CA 4.	Fremont
Brownell, Rainsford Ormond.	A, (S).	Schuyler
Brownell, Roy Almond.	E 2	Omaha
Bruff, James Russell.	CA 2.	Lincoln
Bruner, Helen Marcia.	A 2	Lincoln
Brunke, August Frederick.	E 1	Sterling
Bryan, Albert Riley.	E 1	Talmage
Bryant, Garvey Leland.	A 1	Lincoln
Buchan, Arlene Alice.	G	Aurora

Buchanan, Charles Coe.	L 1.	Omaha
Buck, Miriam P.	A 1	Superior
Buck, Sam Rea.	L 2.	Superior
Buckner, Arthur Warner.	A 3	University Place
Buerstetta, Frank Allen.	Mu	Tecumseh.
Buffington, Florence Fern.	A 2	Fremont
Buller, Jacob P.	A 4	Henderson
Bullock, Theodore Tunison.	A 4	Lincoln
Bumstead, Grace Elinor.	Au	Lincoln
Bungor, N. Calvin	T, (S).	College View
Bunt, Gladys Priscilla.	T 1	Fremont
Bunting, Herbert Robbins.	E 1, (S).	Lincoln
Buol, John William.	A 2	Randolph
Buol, Paul Albert.	E 2	Randolph
Burch, Geo rge Baumgartner.	A 1	Lincoln
Burch, Lottie.	T, (S).	University Place
Burdick, Burton Albert.	G, (S)	University Place
Burgess, Frank Docley.	E 1	Cedar Rapids
Burgess, Mary Laura.	A 2, (SM).	Brule
Burke, Frank Charles.	L 3.	Lincoln
Burke, Joseph Patrick.	E 4	Lincoln
Burn, Robert Raymond.	CA 2.	St. Edward
Burnham, Frank Asabel.	M 4	Pawnee City
Burns, Hiram Delaney.	A 3, M 1	Omaha
Burr, George Lawrence.	A 1	Aurora
Burrage, Dwight Grafton.	G.	Crete
Burritt, Ben Harvey.	L 1.	Ainsworth
Burritt, Esther Mosher.	T 4, (S).	Lincoln
Burritt, Grace Helen.	T 3	Lincoln
Burrows, Margaret.	Au	Lincoln
Buschhusen, Will John.	A 1	Oelwein, Ia.
Bushnell, Herbert Martin.	A 1	Lincoln
Bushnell, John Donald.	A 1	Lincoln
Busk, Myrtle Elizabeth.	T 4	Omaha
Buss, Will Kenneth.	L 1.	Fremont
Butler, Bessie A.	T, (S).	Arapahoe
Butler, Clifford Earl.	L 1.	University Place
Butler, Helen Condon.	A 2	Lincoln
Butler, Mildred Harriet.	T 1	Superior
Butler, Stella Genevieve.	A 1, (SM).	South Omaha
Butts, Sibbie.	T, (S).	Ashland
Buxton, Walter Henry.	A, (S).	College View
Byerts, Gladys Nellie.	Au, (SM)	Lincoln
Cady, Richey Earl.	A 2	Ponca
Caffrey, Ella Mary.	T, (S).	Orleans
Cain, Harry Neal.	E 4	Falls City
Cain, Harry Venner.	E 1	York
Cain, Jean Benson.	L 1.	Falls City
Caldwell, Addie Rosina.	T 2, (SM).	Central City
Caldwell, Frances Emily.	A 1, (S, SM).	Lincoln
Caldwell, Katharine Margaret.	T, (S).	Central City
Cales, Thomas Calvin.	E 1	Wymore
Calhoun, Irma Irene.	T 4	Ashland
Calkins, Georgia.	T, (S).	Lincoln
Cameron, Janet Grey.	T 4	Lincoln
Cameron, Mary Helen.	T 2	Lincoln
Camp, Ray Herbert.	CA 2	Republican City
Campbell, Frank Clark.	E 2	, Milestone, Sask., Can.
Campbell Harold Ray.	CA 1	Osceola
Campbell, John Knox.	T, (S).	Wymore
Canady, Floy Mildred.	T, (S).	Weeping Water
Candy, Charles Mitchell.	E 2	Lincoln
Cannell, Katherine.	A 2	Lincoln
Cannell, Paul John.	E 1	Lincoln
Capwell, Joseph Alfred.	L 1	Dell Rapids, S. D.
Carey, Charles Lyle.	E 3	Bancroft
Carlisle, Flagg Perry.	L 2.	Lincoln

*ROSTER OF STUDENTS*

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*Carlson, Carl Emmanuel.....	.CA 2 .....	Minden
Carlson, Frank Emanuel.....	.Au .....	Lincoln
Carlson, Frederick Charles.....	.CA 1 .....	Omaha
Carlson, George Ludwick.....	.Mu .....	Ong
Carlson, Milford Ralph.....	.E 1 .....	Edgar
Carney, Alberta.....	T, (S) .....	Shelbina, Mo.
Carns, Helen Mitchell.....	A 2 .....	Lincoln
Carns, Margaret Jane.....	Au .....	Lincoln
Carpenter, Blanche Etta.....	T 2, (S) .....	Lincoln
Carr, Allen Earle.....	A 2 .....	Lincoln
Carr, Ivan Nickell.....	A 2 .....	Lincoln
Carraher, Helen.....	Au .....	Madison
Carrier, Sam Crowe.....	E 2 .....	Omaha
Carrington, Mable Susan.....	CA 1, (S) .....	University Place
Carroll, Charles Eden.....	G .....	Lincoln
Carroll, Wayne Tom.....	A 3 .....	Gothenburg
Carse, Earle Russell.....	A 2 .....	Lincoln
Carsten, Emma Marguerite.....	A 1 .....	Albion
Carter, George Neal.....	E 2 .....	Fullerton
Caster, Nellie West.....	A 1 .....	Red Cloud
Castile, Donald Isaac.....	A 3 .....	Stromsburg
Cathey, Cameron.....	E 2 .....	Weeping Water
Cattle, Robert Turner.....	L 3 .....	Seward
Cavanagh, Cornelia Constance.....	T 1 .....	Jackson
Caviness, Leon Leslie.....	G .....	College View
Cecilian, Sister Mary.....	T, (S) .....	Lincoln
Chace, Myra Elizabeth.....	CA 1 .....	Ft. Morgan, Colo.
Chaloupka, Leonard.....	L 2 .....	Wilber
Chamberlain, Lorenzo Warren.....	Au .....	Lincoln
Chamberlain, Samuel Glenn.....	CA 1 .....	Beatrice
Chambers, Alice Orintha.....	T 3 .....	West Point
Chambers, Frank Ernest.....	A 3 .....	West Point
Chambers, Horace Nelson.....	Au .....	Lincoln
Chambers, John Edward Summers.....	A 1 .....	Omaha
Champ, Beulah Gladys.....	T, (S) .....	Lincoln
Chandler, Emeline Lucinda.....	T, (S) .....	Kansas City, Mo.
Chapin, Helen Davies.....	CAu, (SM) .....	Lincoln
Chapin, Mary Leonard.....	A 2, (FA, SM) .....	Lincoln
Chaplin, Nettie.....	A 2 .....	Lincoln
Chapline, William Ridgely.....	CA 2 .....	Lincoln
Chapman, Lewis Carl.....	A 1 .....	Tecumseh
Chase, Celia Mary.....	G .....	University Place
Chase, Floyd Josiah.....	CA 2 .....	Pawnee City
Chase, Jackson Burton.....	L 1 .....	Omaha
Chase, Warren James.....	A 1 .....	Alexandria
Chatburn, Mary Frances.....	A 2 .....	Lincoln
Chauner, Walter Frank.....	E 4 .....	Osceola
Chenoweth, Harold Fiske.....	A 1 .....	Lincoln
Cherny, Millie.....	A 2 .....	North Bend
Cherrington, Ben Mark.....	A 4, (S) .....	Omaha
Cherry, Charles Le Roy.....	G, (S) .....	University Place
Cherry, Mrs. Charles Le Roy.....	T, (S) .....	University Place
Cherry, Edward Le Grande.....	G, (S) .....	University Place
Chesney, Katherine Helen.....	A 1 .....	Omaha
Chowins, Herold Stanley.....	E 1 .....	Lincoln
Christmas, John Alexander.....	L 2 .....	Kemmerer, Wyo.
Claar, Charles Edward.....	Tu, (Ex) .....	Lynch
Clancy, Phillip Windsor.....	E 4 .....	Beatrice
Clara, Sister.....	T, (S) .....	Spalding
Clark, Clarence Leon.....	A 3 .....	Lincoln
Clark, Ethel Cecilia.....	A, (S) .....	Lincoln
Clark, Frank Gibson.....	A 1 .....	Lincoln
Clark, Grace Maria.....	G, (S) .....	Lincoln
Clark, Hazel Theodora.....	A 3, (S) .....	Lincoln
Clark, James Irving.....	L 1 .....	St. Edward
Clark, Lela Marian.....	Tu .....	Milford
Clark, Leroy Benjamin.....	A 1, (S, SM) .....	Lincoln

\*Deceased.

## THE UNIVERSITY OF NEBRASKA

Clark, Mary Charlotte	T, (S, Ex)	Jackson
Clark, Maude Spencer	A 2	Lincoln
Clark, Miriam Anne	A 2	Kearney
Clarke, Nellie May	T, (S)	Lincoln
Clary, Cora Ellen	Au	Lincoln
Claussen, Christina Mary	A 2	Beatrice
Clearman, Mona Lois	A 4	Minden
Cleaver, Vera Genevieve	A 2, (SM)	Lincoln
Cleaver, Vivien Beatrice	T 1, (SM)	Lincoln
Cleland, Margaret	Au	Lincoln
Cleveland, Oliver Henry	Au	Lincoln
Cline, Earl Meloy	L 1	Lincoln
Cline, James Alexander, Jr.	Lu	Lincoln
Cline Katherine	CA 2, (SM)	Lincoln
Clippinger, Edgar	G, (S, Ex)	Sutton
Coad, Ralph George	A 4, L 1	Omaha
Cobb, Cecile Eliza	A 3	Harlan, Ia.
Cobb, Elliott Cunningham	A, M2, (S)	Harlan, Ia.
Codner, Harry Earle	T, (S)	Gibbon
Coffee, Harry Buffington	A 2	Chadron
Coffman, Ethel Beulah	A 2	Lincoln
Cogil, Annie Minnie Theodosia	Au	Lincoln
Cohota, Edward Woods	E 1	Valentine
Colbert, Fred James	A 2	Lincoln
Cole, Nellie Ethelyn	Au (SM)	Loomis
Cole, Paul Nicklin	L 1	Lincoln
Coleman, Arthur Bert	A 1	Wymore
Coleman, Elena Agnes	Au, (S, SM)	Lincoln
Coleman, Verna Grace	A3, (S)	Tecumseh
Coleman, William Henry	G, (S)	Ogallala
Collier, Nelson Martin	E 4	Fairbury
Collins, Curtis Crider	E 3	Pine View, Mont.
Collins, Herbine Channing	Au	Platte, S. D.
Collins, Sidney Morrison	L 3	Lincoln
Colman, Howard Notson	A 2	Seward
Cone, Oscar Romaine	A 1	Lincoln
Cone, Owen Wendle	A 1	Lincoln
Conley, Victor Hugo	E 1	Nehawka
Conneally, Nellie	T, (S)	Wallace
Contrymann, Carrie Monimia	T, (S)	Weeping Water
Cook, Charles Allen	E 2	Table Rock
Cook, Paul Everett	L 1	Lincoln
Cook, Warren Sanford	A 3	Steele City
Cook, Wauneta Emma	A, S	Lincoln
Cooley, Grace Irene	A 3	Hebron
Coon, Gertrude Lorella	A 4	Red Cloud
Coon, Sheldon Blaine	G	Stockham
Coons, George Herbert	G, (S)	Lincoln
Coons, Isabel May	A 1	Lincoln
Cooper, Frank Cornell	E 1	Springfield, S. D.
Cooper, Isaac Stanley, Jr.	A 1	Aurora
Coopersmith, Samuel	G	Durham, N. C.
Corbin, Evelyn	G, (SM)	Beaver City
Correll, Florence Jessie	Au, (FA)	Omaha
Correll, Mabel Leona	A 1	Cambridge
Coryell, Clyde Wilford	E 3	Johnstown
Coryell, Laura Opal	T 2	Norfolk
Coryell, Verna Grace	T 2	Norfolk
Costelloe, Nora Marie	T 1	Alexandria
Cotter, Samuel Orville	L 2	Omaha
Cotton, Harry Edwin	E 2	Kearney
Coughlin, Monica Marie	T, (S)	Greeley
Coulter, Harral Wheeler	A 4	Linco n
Courtmane, Ralph Emmons	L 2	Great Falls, Mont.
Covey, George Worthington	A 3, M 1	College View
Crabtree, James William	G	Lincoln
Cranceer, Ray Ayotte	L 1	Lincoln
Crawford, Mary	G	Kearney

## ROSTER OF STUDENTS

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Creekpaum, Charles Cloyd	A 3	Lincoln
Creekpaum, Grace Anna	T, (S)	Lincoln
Crites, Frederick Augustus	L 1	Chadron
Crocker, George	T 4, (S)	Lincoln
Cromwell, Richard Oliver	A 3	Weeping Water
Cross, Lyman Goodrich	E 1	Lincoln
Crossley, Wilma Ruth	A 3	Kearney
Croston, Minnie Gladys	T, (S)	Hazard
Cruickshank, Catherine Clara	T 2	Lincoln
Cull, Ruth Elizabeth	CA 2	Oakland
Cullen, Alice Anna	CAu	Lincoln
Culley, Jessie Margaret	T 4, G	Loup City
Cultra Carrie Eunice	A 2	Lincoln
Cumming, Benjamin Harrison	E 2	Lincoln
Cummings, Edith N.	T, (S)	College View
Cummins, Harry Alonzo	CA 1	Seward
Cunningham, Lora B.	A 3	Glenwood, Ia.
Curnyn, Ella Florence	T, (S)	Greeley
Curnyn, Myrtle Catherine	T, (S)	Greeley
Currens, Frederick Hawley	G.	Omaha
Currier, Edwin Lovejoy	CA 3	St. Edward
Curry, Earl Raymond	L 1	Liberty
Curry, Mary Elizabeth	A 1	Harvard
Curti, Ralph Elmer	CA 1	South Omaha
Curtis, Louise Frances	A 2	Omaha
Curtis, Randall Fuller	A 3	Omaha
Curtiss, John Edward	L 1	Geneva
Curzon, Charles James	E 1	Auburn
Cusack, Alice Mattie	A, (S)	North Bend
Cusack, Harry Christopher	E 4	North Bend
Cutkosky, Ernest Victor	E 2	Battle Creek
Cutright, John Leo	A 1	Lincoln
Dahlstrom, August Henry	Au	Lincoln
Dale, Ernest Edward	A 2	Greenwood
Dale, Everette Edwin	E 3, (S)	Rushville
Dale, Lora Ina	T 1	Elgin
Dale, Philip Marshall	M 2, (S)	Greenwood
Dalling, Carl Edwin	A 3	Lincoln
Dally, Rose Marie	A 3	Lincoln
Dalton, Laura Irene	CA 4	Lincoln
Dana, Fred Rholand	E 1	Geneva
Daniels, George Augustus	CA 2	Lincoln
Daniels, Mabel Cassie	CA 1	Bancroft
Daniels, Mildred Lyon	A 1, (FA)	Ord
Danielson, Wilford Alfred	A 1	Osceola
Danly, Bert Cunningham	CA 2	Axtell
Danly, Ernest Everett	L 3	Axtell
Darlow, Ida Rowena	A 1	Omaha
Davies, Reginald Emmet	E 3	Utica
Davis, Arthur Cayley	A 1, (S)	Lincoln
Davis, Celia Grace	T 2	Lincoln
Davis, Clarence Albert	A 1	Beaver City
Davis, Earl Harrison	A 3	Lincoln
Davis, Ellsworth Morris	T, (S)	Lincoln
Davis, Fern	T 1	Neligh
Davis, Florence Emma	T 4	Lincoln, R. R. 4
Davis, Georgina Ruth	A 1	South Omaha
Davis, Gertrude Marguerette	CAu	Tecumseh
Davis, Guy Russell	A 3	Lincoln
Davis, Herold Shirley	E 1	Humboldt
Davis, Helen Bissing	A 4	Lincoln
Davis, John Calvin, Jr.	A 1	Omaha
Davis, Mabelle Eva	T 4, (S)	Humboldt
Davis, Mary Myrle	G.	Lincoln
Davis, Mildred Marguerite	A 1, (S, FA)	Lincoln
Davis, Ned Everett	Mu	Carroll, Ia.
Davis, Pauline Kate	CA 3	Lincoln
Davis, Robert Leslie	Au	Lincoln

Davis, Ruth Janette.....	A 2 .....	Lincoln
Davis, Searl S.....	G .....	Lincoln
Davis, Walter Coats.....	L 1 .....	Lincoln
Davis, Willard Tilden.....	A, (Ex).....	Beaver City
Dawson, Frederic George.....	A 2 .....	Pattsmouth
Dawson, Ralph Ward.....	A 3 .....	Lincoln
Dawson, Reed Barnes.....	A 1 .....	Lincoln
Dawson, Sadie Geneva.....	T, (S).....	College View
Day, Alice Ellen.....	Au .....	Lincoln
Day, Anna V.....	Au .....	Beatrice
Day, Elsie.....	G .....	Lincoln
Deane, Carl Eugene.....	A 1 .....	Lincoln
Deane, Charlotte Alice.....	CAu .....	Lincoln
Debel, Niels Henriksen.....	A 2, (S).....	Blair
Decatur, Charles Edward, Jr.....	L 3 .....	Lincoln
Deemer, Donald Romaine.....	E 1 .....	Wymore
Deets, Milford.....	E 2 .....	Hastings
DeLong, Alton Harrison.....	A 1, (4 yr. Pharmacy)	Hartington
Delzell, Ethel LaClare.....	CAu .....	Lexington
Deming, Burla Ruby.....	CAu, (S).....	Cortland
Deming, Edna Rosellen.....	A, (S).....	Cortland
Denison, Beulah Margaret.....	Au, (SM).....	St. Francis, Kans.
Dennis, Waldo Willsey.....	E 2 .....	Omaha
Dewey, Arlie Walter.....	A 2 .....	Lincoln
Dewey, Joseph Clarence.....	L 1 .....	Lincoln
Dewey, Vern B.....	A 1 .....	Lincoln
Dewolf, George Elwin.....	T 3 .....	Gibbon
Dick, Robert Payne.....	CA 1 .....	North Platte
Dickenman, Charles John.....	E 1 .....	Talmage
Dickinson, Frank.....	A 4 .....	Lincoln
Dickinson, Verle Florence.....	Au, (SM).....	Lincoln
Dickinson, Zenas Clark.....	A 1 .....	Lincoln
Dickson, Lois Marietta.....	A 1 .....	Lincoln
Dickson, Wayne Frederick.....	A 1 .....	Plattsmouth
Diers, Carl Everett.....	Mu .....	Ulysses
Diers, Harold Mentzel.....	A 1 .....	Madison
Diers, William Henry.....	E 1 .....	Gresham
Dill, Byron Edgar.....	T, (Ex).....	Wilber
Dill, Elmer.....	A 3 .....	Belvidere
Dill, Lucy Annie.....	A 2 .....	Grand Island
Dillon, Ida Maize.....	T, (S).....	Lincoln
Dinsmore, Archibald Hughes.....	A 2, (S).....	Lincoln
Dinsmore, Francis Elmer.....	A 4 .....	Lincoln
Dinsmore, Helen.....	A 3 .....	Lincoln
Dirks, John Thomas.....	E 4 .....	Lincoln
Ditterline, Ezra.....	E 4 .....	Lincoln
Dixon, Howard Emerson.....	L 3 .....	Blair
Dobbs, Evelyn Edith.....	A 2 .....	Beatrice
Dobbs, Stuart Piper.....	L 3 .....	Lincoln
Dobry, Charles Wesley.....	L 3 .....	St. Paul
Dobson, Arthur Allan.....	E 4, (Ex).....	Lincoln
Dobson, Mark Howard.....	A 4 .....	Lincoln
Dodds, Louie.....	A 1 (4 yr. Pharmacy)	Omaha
Dohner, Clara Irene.....	Au, (FA).....	Lincoln
Dohner, Florence Lyman.....	T 4, (S).....	Lincoln
Dolansky, Vlasta Bessie.....	Au .....	Lincoln
Dolman, Adabooth.....	Au, (SM).....	Lincoln
Donato, Anthony Z.....	L 2 .....	Lincoln
Donlen, Daniel Ray.....	E 3 .....	Ponca
Doolittle, Warren Andrew.....	CA 1 .....	North Platte
Douglas, Lynn Hutchison.....	CA 4 .....	Lincoln
Douglas, Vincent De Paul.....	E 1 .....	Clarks
Douglass, Marie.....	A 1 .....	Plattsmouth
Douthitt, Fred D.....	CA 1 .....	Lincoln
Dovey, George Oliver.....	A 1 .....	Plattsmouth
Downar, Amon Russell.....	T, (S).....	Gering
Downes, Iona.....	CA 2 .....	Lincoln
Downey, Ella Frances.....	CA 2 .....	Lincoln

## ROSTER OF STUDENTS

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Downing, Lucile M.	T 1	Kearney
Doyle, Faye Louise	CA 1, (SM)	Lincoln
Doyle, Louis Niven	T, (S)	Lincoln
Doyle, Otha Henry	L 1	Lincoln
Drake, Bessie Hazel	A 2	Beatrice
Drake, Fannie Adrienne	G	Broken Bow
Drake, Helen Mar.	CA 2	Beatrice
Drake, Hugh Henderson	A 3	Humphrey
Drake, Nellie Boyd	A 4	Broken Bow
Drake, Robert James	T 2	Lincoln
Drath, Bertha Marie	T 2	Lincoln
Driscoll, John Lynn	A 1	Boise City, Idaho
Dryden, Frank Merle	A 3	College View
Duerr, Anna Wilhelmina	T, (S, FA)	Crete
Dufur, Jessie Fae	T 4	Lincoln
Dugdale, Allison Harold	A 4, M 2, (S)	Lincoln
Dumbolton, Leah Grace	A 1	Lincoln
Dunaway, Emmett Harrison	A 1	Overton
Duncombe, Frances Evaline	G, (S)	Lincoln
Dunham, Frances Aileen	A 3	Lincoln
Dunkin, Dorothy Vestina	A 1, (SM)	Ravenna
Dunkin, Erma Matsler	A 1	Ravenna
Dunlavy, Creta	A 3	Bloomington
Dunlay, Ray Charles	E 2	Orleans
Dunn, Neil Harrison	A 1	Lincoln
Dunn, Neta Dorothy	Au	Lincoln
Durbin, May	T, (S)	Elmwood
Dusatko, Louise Anna	T 1	Clarkson
Dutton, Florence	A 4	Hastings
Dworsak, Agnes Julia	A 1	Oakdale
Dwyer, Margaret	T, (S)	Arden
Dye, Joseph Merlin	A 2	Omaha
Dysart, Laberta Rosamond	A 1	Eagle
Eads, Lucile Blanche	T 3, (S)	Lincoln
East, Anna Merritt	A 3	Fremont
East, Arthur Milton	A 2	Fremont
Easton, Arthur Charles	E 1	Cambridge
Eaton, Paul Harold	L 1	Benkelman
Eatough, Grace	T, (S)	Lincoln
Ebmeyer, Elsie Dorothy	A 2	Lincoln
Ebmeyer, Gerhard Ernest	Eu	Lincoln
Eckerson, William Tracy	A 1	Ravenna
Eddy, George Turner	A 2	Fremont
Edgar, Park Lowell	E 2	Scottsbluff
Edgecombe, Tyler Mengel	CA 4	Geneva
Edgren, Verna	A 1, (S)	Lincoln
Edison, Oskar Edwin	E 1	Gothenburg
Edwards, Ellis Lincoln	T, (S)	Lincoln
Egan, John Joseph	E 2	Nebraska City
Egan, Thomas Germaine	A 1	Nebraska City
Egen, Thekla Wilhelmina	T 4, (S)	Omaha
Eggenberger, Emma Ada	A, (S, Ex)	Strang
Eggleston, Olive Beatrice	T 2, (FA)	Elgin
Elley, Harold Walter	A 3, (S)	Madison
Elliott, Ada Laura	T 1	Lincoln
Elliott, Anna Mary	A, (S, FA)	Lincoln
Elliott, Earl Benton	L 3	Hartington
Elliott, Olive Pearl	T, (S)	University Place
Ellis, Ira Cecil	CA 1	Havelock
Ellis, James William	A 3, M 1	Lincoln
Ellison, Estella May	CA 1	University Place
Elmore, Clarence Jerome	G	Grand Island
Elseffer, Vincent Bartling	E 4	Grand Island
Elwell, John Alois	CAu	Springfield
Ely, Thomas Judson	CA 1	Lincoln
Emerson, Rollins Adams	G, (S)	Lincoln
Emley, Alban Maurice	A 1, (SM)	Wisner
Emley, Bruce Waldo	A 1	Wisner

## THE UNIVERSITY OF NEBRASKA

Emmett, Roland Finch.	E 2	Lincoln
Empey, Helen.	A 1	El Reno, Okla.
Emry, Ralph Eton.	Au.	Lincoln
English, Horace Bidwell.	A 2	Lincoln
Enyeart, Bertha Elvina.	T, (S)	Arlington
Epperson, Charles Haylett.	A 1	Clay Center
Erickson, Arthur.	L 1	Greeley, Colo.
Erickson, Charles.	E 3	Axtell
Erickson, Clara Almeda.	T 4, A 4.	Oakland
Erickson, David Leonard.	E 4	Lincoln
Erickson, Leonard William.	E 4	Stromsburg
Ericson, Melvin.	E 2	Stromsburg
Ernsberger, Iva Belle.	G,	Norwalk, Ohio
Erksine, Earl Bradley.	A 2, M 1	Tilden
Erskine, Lowell C.	A 2	Norfolk
Ervin, James Robertson.	A 2	Lincoln
Erwin, Grace.	A, (Ex).	Ruskin
Evans, Clark Bentley.	L 3	Wisner
Evans, Edna Ruth.	A 1	Fairbury
Evans, Ethelyn Ray.	T, (S)	California, Iowa
Evans, Myrtle Charles.	E 2	Stella
Evans, Robert V.	CA 1	Scranton, Pa.
Everham, Bessie.	A 1	Glenwood, Iowa
Eversole, Rebecca Finley.	A 3	Elk Creek
Everson, Elizabeth.	T, (Ex).	Alma
Ewart, Flora Elsa.	CAU, (S).	Lincoln
Ewart, Inez Florence.	Au.	Lincoln
Ewing, Halle Laura.	G, A 4, (S).	Hardy
Fair, Helen Maud.	A 1, (SM).	Aurora
Farley, Alice Laura.	Au, (SM)	Lincoln
Farley, Fayse Florence.	T 4	Bancroft
Farley, Fletcher Lawrence.	L 2	Aurora
Farley, William John.	A 2	Beatrice
Farlow, Vera Marie.	T 1	Rushville
Farman, Florence.	T 2	Rushville
Farman, George Franklin.	A 1	Missouri Valley, Iowa
Farquhar, Matie.	T, (S)	Inland
Farrell, Annie Patience.	Au.	Lincoln
Farrell, Lawrence Francis.	E 1	Lincoln
Farrell, Maude Edna.	A 2, (FA).	Lincoln
Farrow, Alonzo Fidelas.	L 1	Lincoln
Faulhaber, Marie Helen.	T, (S)	Lincoln
Fawthrop, Grace Ethel.	A 2	Lincoln
Feeminster, Charles Ferguson.	A 3	York
Feeminster, Howard Calvin.	G, (SM).	York
Feeminster, Silas Calvin.	G, (S).	York
Fehliman, Clinton Earl.	A 4, (Ex)	Beemer
Ferguson, Richard D.	Eu.	Lincoln
Ferguson, Robert Likes.	A 3	Lincoln
Fetzer, Marie Charlotte.	CA 1	Plattsmouth
Field, Albert David.	T, (S)	Keene, Texas
Field, Allen Wescott, Jr.	L 3	Lincoln
Field, Georgia Baldwin.	G, (S, FA)	Lincoln
Field, John Wesley.	G	College View
Field, Kate.	CA 4	Lincoln
Field, Osmond Francis.	A 1	Lowell, Mass.
Fielding, Fred Hebbard.	L 1	Lincoln
Filley, Horace Clyde.	G.	Beatrice
Fillipi, Theodore.	A 3	Clarkson
Finigan, Mary Agnes.	Tu, (S)	Havelock
Finley, Robert Halbert.	E 1	Omaha
Fischer, Chester Arthur.	A 1	Castana, Iowa
Fischer, Walter Alfred.	E 1	Castana, Iowa
Fish, Herbert Huron, Jr.	A 1	Omaha
Fisher, Albert Eugene.	Au, (Ex)	Aurora
Fisher, Laura Amelia Avenelle.	T, (S)	Chadron
Fishwood, Halley M.	E 2	Lincoln
Fishwood, Hazel Charlotte.	A 2, (FA).	Lincoln

## ROSTER OF STUDENTS

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Fiske, Helen Marie.....	Au.....	Lincoln
Fitch, Robin Wynne.....	A 2.....	University Place
Fitzgerald, Elsie.....	A 1.....	Lincoln
Fitzgerald, Joseph Milton.....	L 1.....	Kearney
Fitzgerald, Zora Elizabeth.....	A 3, (SM).....	Omaha
Flansburg, Claude Wilkinson.....	A 3.....	Lincoln
Fleetwood, Leonard Titus.....	A 1.....	Wakefield
Fleming, William.....	A 4, L 1.....	Sutton
Flock, Frances Maud.....	T 2.....	Blair
Flory, Harry Ferris.....	E 2.....	Geneva
Flory, Paul Jones.....	A 2.....	Pawnee City
Flory, Robert Davison.....	A 1.....	St. Edward
Folsom, Donald.....	A 3.....	Lincoln
Foote, Paul Darwin.....	G.....	Lincoln
Forbes, Jerome Richard.....	A 2.....	Wayne
Forbes, William Pense.....	CA 3.....	Wayne
Ford, Herbert.....	A 4.....	Humboldt
Forman, William Olivet.....	E 4.....	Lincoln
Formanek, Joseph Frank.....	E 1.....	South Omaha
Forster, Elizabeth.....	T, (S).....	Fremont
Forsyth, Evald Murl.....	L 2.....	Lincoln
Fossler, Shirley Allen.....	A 2.....	Lincoln
Foster, Bessie.....	A 2, (FA).....	Sterling
Foster, George Nimmons.....	L 3.....	Sterling
Foster, Hazel Lois.....	T 3.....	Lincoln
Foster, Richard Joseph.....	E 3.....	Lincoln
Fowler, Caroline Elisabeth.....	T 1.....	Leigh
Fowler, Marie Belle.....	CA 1.....	Lincoln
Fowler, William Kirk, Jr.....	A 1.....	Lincoln
Fox, Frank Elmer.....	CA 1.....	Randolph
Frackelton, James Robert.....	Eu, (SM).....	Lincoln
Frahm, Harriet.....	T, (S).....	Ceresco
Francis, Frances Edith.....	T 3.....	Lincoln
Francis, John Arthur.....	E 4.....	Lincoln
Francis, Myrtle Alice.....	T, (S).....	Lincoln
Frank, Lorenz William.....	M 4.....	Arapahoe
Frank, Owen Ashcraft.....	L 1.....	Grand Island
Frank, William Ernest.....	A 2.....	Grand Island
Franklin, N. Victor.....	A 1.....	Cambridge
Franklin, Phillip Leslie.....	A 2.....	Cambridge
Franks, Clare Louis.....	E 1.....	Canby, Minn.
Frazier, William Benton.....	E 1.....	Lincoln
Frederick, Karl Philip.....	A 4, (FA).....	Lincoln
Frederickson, Oscar Fred.....	CA 1.....	Lincoln
Freeman, John Lawton.....	A 1.....	Kearney
Freiday, Lena May.....	A, (S).....	Rising City
Freitag, Albert.....	E 2.....	Grand Island
Fricke, Lawrence Allyn.....	CAu.....	Omaha
Frickey, Lillian Edna.....	Au.....	York
Friedline, Cora Louisa.....	A 2.....	Lincoln
Fritts, Mabel Agnes.....	Au, (SM).....	Lincoln
Frost, Ernest Ellsworth.....	E 1.....	Vivian, S. D.
Frost, Florence.....	A 1.....	Lincoln
Frost, Gouldene.....	A 1.....	Lincoln
Frost, Hubert Melvin.....	A 2.....	Hooper
Frost, Roland Merideth.....	A 3.....	Lincoln
Fry, Annie Clarissa.....	A 4.....	Omaha
Fuchs, Gustave Otto.....	A 3.....	Stanton
Fullaway, Samuel Vanstone, Jr.....	CA 3.....	Omaha
Fuller, Margaret Bradley.....	T 1, (FA).....	Beatrice
Fuller, Ralph Dewitte.....	L 1.....	Wauneta
Fuller, Rex.....	A 1.....	Emerson
Fulton, Edna Inez.....	A 1.....	Lincoln
Fulton, Raymond Allinson.....	E 1.....	Table Rock
Funk, Henry William.....	L 1.....	Blue Hill
Funk, Minnie Marguerita.....	T 4.....	Blue Hill
Furer, Edward A.....	E 1.....	Fairfield
Gaeckler, Maude Hazel.....	A 4.....	Lincoln

Gail, Floyd Whitney . . . . .	A 4, (S) . . . . .	Lincoln
Gail, Harriet Terry . . . . .	Au . . . . .	Lincoln
Galbraith, Clarence Leroy . . . . .	T 1 . . . . .	Beemer
Gallagher, Edward Mann . . . . .	A 2 . . . . .	O'Neill
Galley, Amy Beatrice . . . . .	CAu . . . . .	Lincoln
Galloway, Blanche . . . . .	A 2 . . . . .	Holdrege
Galloway, George Davis . . . . .	E 4 . . . . .	Holdrege
Gannon, Grace Marie . . . . .	A 3 . . . . .	Lincoln
Gantt, Edith . . . . .	T 4 . . . . .	Lincoln
Gardner, Charles Henry . . . . .	CA 2 . . . . .	University Place
Gardner, William Edward . . . . .	A 1 . . . . .	Gering
Gardner, William Henry . . . . .	G . . . . .	University Place
Garrett, Ralph Wallace . . . . .	A 3 . . . . .	Madison
Garrison, Ralph Waldo . . . . .	E 1, (SM) . . . . .	Blue Springs
Garst, Virgil Paul . . . . .	M 2 . . . . .	Lincoln
Garst, Virlinda Brittain . . . . .	G . . . . .	Lincoln
Gates, Athalia Margaret . . . . .	T 1 . . . . .	Scottsbluff
Gates, Harrison Edward . . . . .	A 1 . . . . .	Oelwein, Ia.
Gates, Leroy Malleieu . . . . .	A 2 . . . . .	University Place
Gay, Harold Howard . . . . .	E 1 . . . . .	Omaha
Gee, Elmer Charles . . . . .	E 2 . . . . .	Lincoln
Gehring, Henry . . . . .	Au . . . . .	Surprise
George, Arthur Gray . . . . .	A 2 . . . . .	Cumro
George, Clarence Winfield . . . . .	A 4 . . . . .	Cumro
Gere, Mariel Clapham . . . . .	G . . . . .	Lincoln
Gerstenberger, Jesse A. V. . . . .	L 1 . . . . .	Lincoln
Gibbins, Sarah Emily . . . . .	Tu . . . . .	Beaver Crossing
Gibbs, Arthur Benjamin . . . . .	T, (S) . . . . .	Lebanon
Giberson, Roy Harrison . . . . .	CA 3 . . . . .	Weeping Water
Gibney, John Edward . . . . .	A 3 . . . . .	Elkhorn
Gibson, Frances Emma . . . . .	A 3 . . . . .	Lincoln
Gibson, Glen Thomas . . . . .	L 2 . . . . .	Gibbon
Gibson, Irma Vida . . . . .	T 2 . . . . .	Fremont
Gibson, James Patterson, Jr . . . . .	E 2 . . . . .	Lincoln
Gieseke, Maree Nora . . . . .	T 1 . . . . .	Lincoln
Gilbert, Albert Henry . . . . .	CA 3 . . . . .	Johnson
Gilbert, Margaret Palmer . . . . .	A 2 . . . . .	York
Gilcrest, Leila Linn . . . . .	Tu . . . . .	Grand Junction, Colo.
Gillespie, Hugh Frances . . . . .	T, (S) . . . . .	Lincoln
Gilmore, Charles . . . . .	G . . . . .	Lincoln
Gilmore, Melvin Randolph . . . . .	G . . . . .	Bethany.
Gilmore, Oden Sebastian . . . . .	L 3 . . . . .	York
Gilmore, Pearl Irene . . . . .	Au . . . . .	Fairbury
Gilmore, Robert Leroy . . . . .	L 1 . . . . .	York
Gilmore, William Patrick . . . . .	E 1 . . . . .	Nebraska City
Gilpin, George Ervin . . . . .	E 1 . . . . .	Wilsonville
Gilpin, Grace D. . . . .	CAu . . . . .	Franklin
Gish, Oliver Holmes . . . . .	G . . . . .	Lincoln
Gist, Isham Reavis . . . . .	A 2 . . . . .	Falls City
Gittings, Vern Wallace . . . . .	G . . . . .	Superior
Given, Loretta Allen . . . . .	T 1 . . . . .	Lincoln
Glade, George Herman, Jr. . . . .	E 3 . . . . .	Lincoln
Glade, William Patton . . . . .	E 1 . . . . .	Lincoln
Glazier, Pearl Pember . . . . .	Au . . . . .	Gibbon
Glazier, Ruth Inez . . . . .	Au, (SM) . . . . .	Gibbon
Glenn, Ethel Albin . . . . .	T, (S) . . . . .	Stamford
Glenn, Ray Fielding . . . . .	T, (S) . . . . .	Stamford
Goble, Wade . . . . .	A 4, L 1, (S) . . . . .	Butte
Goddard, Edith Alta . . . . .	A 2 . . . . .	Lincoln
Goodard, Grosvenor . . . . .	E 2 . . . . .	Lincoln
Goggins, Harry Clinton . . . . .	L 1 . . . . .	Lincoln
Golden, Martina Frances . . . . .	A 1, (S) . . . . .	Lincoln
Golden, Thomas Vincent . . . . .	A 2, CA 2 . . . . .	Lincoln
Goldsmith, Everett Lee . . . . .	E 1 . . . . .	Lincoln
Goldstein, Joseph . . . . .	L 1 . . . . .	Lincoln
Goodbody, Maurice Fredrick . . . . .	CA 1 . . . . .	Lincoln
Gooden, Alta May . . . . .	CA 4 . . . . .	Lincoln
Gooden, Hazel . . . . .	A 2 . . . . .	Lincoln

## ROSTER OF STUDENTS

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Goodfellow, Marie Isadore	T 4	Jackson
Goodman, Walter Frank	CA 1	Lincoln
Goodnough, John Harland	M 1	Chadron
Goodrich, Orin Lee	CA 1	Nelson
Goodrich, Thomas Victor	G	Lincoln
Gordon, Ida May	A 1	Omaha
Goss, Loy	A 2, (SM)	Lincoln
Gossard, George Waldo	E 2	Columbus
Gould, Ruth	A 1	Omaha
Gowing, Mabelle Frances	T 3, (S)	Lincoln
Graf, Otto Julius	G	Berrien Springs, Mich.
Graham, Archie Ray	L 1	Falls City
Graham, Clyde Thomas	E 4	Avoca
Graham, Ethel Victoria	A 1, (SM)	University Place
*Graham, Etta Viva	T, (S, Ex.)	Wymore
Graham, George Arthur	E 2	Lincoln
Graham, George Harvey	A 4, (SM)	Omaha
Graham, Harold Smith	L 2	Lincoln
Graham, John Wilmott	L 1	North Bend
Graham, Mary Catherine	G	Lincoln
Graham, Paul Seabrook	A 2	Lincoln
Graham, Robert Arnold	E 3	Crete
Graham, Robert Hamel	T, (S)	Wymore
Grainger, Elsie Elizabeth	A 1	Lincoln
Grainger, Herbert Norbury	E 1	Lincoln
Gramlich, Howard John	CA 4	South Omaha
Gramlich, Louis Trumble	E 2	Ft. Crook
Gramlich, Ralph Clifford	M 1	South Omaha
Grant, Esther Laurene	CAu	Beatrice
Grantham, Bernetta	CAu	De Witt
Graves, Ernest Elmer	Mu	Lincoln
Graves, Ernest Howard	CAu	Lincoln
Graves, Harriet	Au, (S)	Lincoln
Graves, Jessie Belle	A 1	Lincoln
Gray, Geraldine Hortense	A 2	Columbus
Green, Barton Lamb	L 3, (S)	Lincoln
Green, Gracia	Au	Lincoln
Green, Irene Geraldine Courtney	Au	Lincoln
Green, Lucy May	A 4	Blue Springs
Green, Margaret	T 1	York
Green, Ralph Dennis	A 2	Deshler
Green, Richard Oscar	E 4	McCook
Green, Roy Melvin	E 1	McCook
Greenamyre, Madge Marie	A 1	Lincoln
Greenberg, Abe	A 2	Omaha
Greene, Jessie Geneva	CA 4, (S)	Lincoln
Greenlund, Helma	A 2	Lincoln
Gregg, Lowell Ernest	CA 1	Omaha
Griess, Gustav Martin	Mu	Sutton
Grievish, Ruth Evelyn	A 1, (SM)	Lincoln
Griffin, Bayard Franklin	A 1	Takemah
Griffin, Charles Powell	L 3	Superior
Griffin, Sam Spielman	A 1	Tekamah
Griffith, Donee	T 2	Lincoln
Grimes, Bertha Edna	T 1	Sterling
Grimes, John Herbert	E 1	Blue Hill
Grimison, James Ernest	A 2	Lincoln
Grimm, Edith Anita	G	Lincoln
Grimm, Florence Marie	T 3	Lincoln
Griswold, Willard Russell	L 2	Lincoln
Groves, Benjamin Harrison	E 3	Nelson
Grubb, George Albert	Mu	Lincoln
Grummann, Herbert Richard	A 1	Lincoln
Guenzel, Carl Stanley	L 1	Lincoln
Guidinger, Will Walter	T 2	Schuyler
Guilfoil, James Howard	L 1	Hyannis

\*Deceased.

Gunn, Ella Belle . . . . .	A 3 . . . . .	Kearney
Gunn, Tena Margaret . . . . .	T, (S) . . . . .	Lexington
Gunther, Fred John . . . . .	E 1 . . . . .	Weeping Water
Guthberlet, Albert Harrison . . . . .	T 4 . . . . .	Hardy
Guthrie, George LeRoy . . . . .	E 4 . . . . .	Havelock
Gutherie, Louise . . . . .	CA 3 . . . . .	Lincoln
Guthrie, Margaret . . . . .	T 4 . . . . .	Omaha
Guthrie, Richard Terrell . . . . .	CA 3 . . . . .	Lincoln
Hacker, Francie Aloysius . . . . .	E 1 . . . . .	Friend
Hadsell, Hugh Burton . . . . .	A 1 . . . . .	Geneva
Hagenstein, Guss, Jr. . . . .	L 1 . . . . .	Spencer
Haggart, Ralph Archie . . . . .	L 1 . . . . .	St. Paul
Hahn, Helen Magdalene . . . . .	A 2 . . . . .	Wayne
Hahne, Ernest Herman . . . . .	A 4, L 1 . . . . .	Lincoln
Hainer, Julia Thurston . . . . .	G . . . . .	Lincoln
Hainer, Laura . . . . .	Au . . . . .	Lincoln
Hale, Gifford Nathan . . . . .	L 1 . . . . .	Lincoln
Haley, William Bernard . . . . .	L 1 . . . . .	Valentine
Hall, Albert Dare . . . . .	A 3 . . . . .	Nehawka
Hall, Edith Mead . . . . .	Au, (FA, SM) . . . . .	Lincoln
Hall, Jervis Leighton . . . . .	E 1 . . . . .	Lincoln
Hall, Lloyd George . . . . .	A 2 . . . . .	Cowles
Hall, Matie Ella . . . . .	CA 1 . . . . .	York
Halldorson, Paul John . . . . .	A 4 . . . . .	Lincoln
Halldorson, Ralph Emerson . . . . .	A 3 . . . . .	Lincoln
Haller, Ruth . . . . .	A 3, CA 3 . . . . .	Omaha
Halligan, Paul Rolfe . . . . .	L 2 . . . . .	North Platte
Hallowell, Bertha Lillian . . . . .	G, (2 P 1) . . . . .	Kearney
Halmes, George Nicholas . . . . .	E 1 . . . . .	Weeping Water
Halstead, Lloyd Dickson . . . . .	T 3 . . . . .	Tecumseh
Ham, John Paul . . . . .	A 3, M 1 . . . . .	Benkelman
Hamilton, Hazel Ella . . . . .	A 1 . . . . .	Wahoo
Hamilton, Jean Delphine . . . . .	T 4 . . . . .	Cedar Rapids
Hamilton, Margaret . . . . .	T, (S, Ex) . . . . .	Omaha
Hammer, Clara Marion . . . . .	A 2, (SM) . . . . .	Harlan, Iowa
Hammer, Elva Naomi . . . . .	A 1, (SM) . . . . .	Harlau, Iowa
Hammitt, Walter Frank . . . . .	M 2 . . . . .	Garwin, Iowa
Hammond, Lucy Hortense . . . . .	CA 4, (S) . . . . .	Lincoln
Hammond, Mallie Belle . . . . .	T 1 . . . . .	Pawnee City
Hammond, Margaret Estelle . . . . .	A 1, (S) . . . . .	Lincoln
Hanel, Osa . . . . .	A 1, (SM) . . . . .	Brighton, Colo.
Hanlen, John Greer Leroy . . . . .	L 1 . . . . .	Tilden
Hanley, Fred . . . . .	A 2 . . . . .	Lincoln
Hanley, Kathleen . . . . .	Au, (SM) . . . . .	Lincoln
Hanna, Edith Evangeline . . . . .	A 4 . . . . .	Lincoln
Hanna, Ralph Adolph . . . . .	Au . . . . .	Lincoln
Hannah, Margaret Louise . . . . .	G . . . . .	Tilden
Hanning, Phillip Wayne . . . . .	Lu . . . . .	Lincoln
Hansen, Fred Christein Marinus . . . . .	A 1 . . . . .	Blair
Hansen, George Harold . . . . .	L 1 . . . . .	Fairbury
Hansen, Mabel . . . . .	CA 2 . . . . .	Hastings
Hansen, Theodore Marcus . . . . .	A 2 . . . . .	Ruskin
Hanson, Laura Grace . . . . .	T 2 . . . . .	Belvidere
Hanson, Mary Ann . . . . .	A 1 . . . . .	Lincoln
Hanthorn, Emma Evelyn . . . . .	A 2, (S) . . . . .	Lincoln
Hanthorn, Mattie Alice . . . . .	A, (S) . . . . .	Lincoln
Hanzlik, Carolyn Soetla . . . . .	T 2 . . . . .	Lincoln
Hanzlik, Milo Otto . . . . .	A 3 . . . . .	Lincoln
Hapner, Leora M . . . . .	T, (S) . . . . .	Bozeman, Mont
Harden, Clifford James . . . . .	E 3 . . . . .	Lincoln
Harden, Lloyd . . . . .	E 1 . . . . .	Lincoln
Hardin, Claire Martha . . . . .	A 2, (SM) . . . . .	Alma
Hardin, Elizabeth C. . . . .	T, (S) . . . . .	Bethany
Hardy, Estella Fern . . . . .	T 4 . . . . .	Lincoln
Hare, Arthur Merlin . . . . .	A 4, L 1 . . . . .	Albion
Hargett, Anderson J. . . . .	G, (S) . . . . .	Bethany
Hargett, Maldo Hair . . . . .	T, (S) . . . . .	Bethany
Hargrave, Mark Cromwell . . . . .	A 2, (S) . . . . .	Wymore

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Hargrave, Thomas Jean.	A 2, (S)	Wymore
Harm, Winfred Bronsart	A 1	Omaha
Harmon, Dewey Jehu	A 3	Lincoln
Harmon, Harvey Horace	G	Lincoln
Harmon, Hoyt Henry	E 2	Nebraska City
Harms Charles Wesley Warren	M 1, A 3, (S)	Clatonia
Harper, Ella Bradford	G.	Lincoln
Harper, Helen Carson	Au.	Lincoln
Harpham, Dorothy Maud	A 1, (SM)	Lincoln
Harpham, James Huston	E 4	Lincoln
Harpster, Walter Clarence	T, (S)	Neigh
Harrington, Constance Helene	Au, (SM)	O'Neill
Harrington, Paul Lewis	A 1	Wayne
Harris, Barton Park	CA 1	Lincoln
Harris, Clifford Blaine	E 2	Ohioa
Harris, Elmer Ray	E 1	Lincoln
Harris, Laura	T, (Ex)	Lincoln
Harrison, Benjamin	L 1	Dunbar
Hart, Gladys	A 1	Hardy
Harte, Lloyd Warden	E 1	Gibbon
Harte, Lucy Christian	A 2	Omaha
Hartley, Luella Pierce	G	Lincoln
Hartley, Willard Aaron	A 2	Lincoln
Hartman, Harry Walter	E 1	Lincoln
Hartwell, John Garrett	L 1	Aladdin, Wyo.
Harvey, Andrew, Jr.	M 2, (S)	North Bend
Harvey, David Richard	E 2	North Bend
Harvey, Howard Clemons	E 1	College View
Harvey, John Frederick	CA 1	Lincoln
Hascall, Vincent Charles	L 2	Lincoln
Haskell, Rosewell	A 1	Lincoln
Hastings, Robert Richardson	L 1	Crete
Hathaway, Henry Cook	A 4, L 1	Lincoln
Hathaway, Margaret Hazel	T 3	Holdrege
Haughawout, James Frank	E 1	Fairmont
Hawes, Annie	Au, (G)	Lincoln
Hawes, Frank Wilber	E 2	Lincoln
Hawley, Robert D.	L 2	Nebraska City
Hawthorne, Aime Whitman	Au	Lincoln
Hayden, Zeta Estelle	A 1, (HS)	Lincoln
Hayes, Frank Albert	CA 2	Hardy
Haynes, James Wilbur	E 1	Omaha
Heacock, Mary Mills	A 2	Springfield
Heacock, Ruth Florence	A 4, (S)	Falls City
Heaton, William Daniel	A 4, M 2	Wahoo
Hedges, Mabel Maude	G, (S)	Lincoln
Heighton, Charles Henry	L 1	Greeley, Colo.
Heimer, Eleanor Octavia	T 4, (FA)	Gordon
Heine, Clinton Daniel	A 1	Hooper
Heine, Vincent Julius	CA 1	Hooper
Heintzelman, Alma Eulalia	T 2	Lyons
Heitkotter, John George	E 1	Lincoln
Hemler, Abbie Beatrice	CA 1	Beatrice
Hempel, Loreine Anna	T, (S)	Lincoln
Henderson, Sarah Curtis	Au.	Wahoo
Hendricks, Bernard Clifford	A 4	Nelson
Hendricks, Edward Roy	A, (S)	Wahoo
Hendricks Ina Hattie	T 4	Ashland
Hendricks, Leila Alice Smith	T 3, (S)	Lincoln
Hendrickson, James William	A, (S, Ex)	Eustis
Hendryx, Miranda Elizabeth	T, (Ex)	Omaha
Hene, Bert B.	E 2	Omaha
Henline, Ralph Gregory	A 1	Kearney
Henry, Lena	Au	Ashland
Henry, Vera Avis	T 1	Lincoln
Hepperlen, Thomas Andrew	A 1	Beatrice
Herman, Irma Louise	A 3	Lincoln
Hermansen, Marie	CAu.	Kearney

Herminghaus, Ernst Herman	CA 2	Lincoln
Herr, Norman Percy	E 1	Oxford
Herrington, Sarah Martha	A 4	Wakefield
Hess, Etta	T 1	Hebron
Hess, Harvey William	A 1	Hebron
Hess, Helen Fay	A 1	Blue Springs
Hesseltine, Carrie Elizabeth	A 4	Peru
Hester, Harry Edward	A 1	Beaver City
Hetzler, Ida Maurine	A 2	Albion
Hewett, James Kelley	E 3	Alliance
Hewitt, Emma Edna	G	Lincoln
Hewitt, Lucy Rockwood	G	Lincoln
Heyhoe, Albert George	G	Crete
Hiatt, Marjette May	T 1, (SM)	Murray
Hickman, Arthur Lynn	E 1	Aurora
Hickman, Leon Archibald	A 1	Seward
Hiett, Myrtle Anna	Au	Sidney
Higgins, Ralph Philip	M 3	Blue Hill
Higgins, Ray Morten	A 2	Hartington
Hill, Burton Sanfey	A 2	Lincoln
Hill, Cora Belle	G	Lincoln
Hill, Delilah Almeda	T 1	Falls City
Hill, Elsie Mary	CA 1	Randolph
Hill, Florence Berneice	A 1	Lincoln
Hill, Frank Tibbets	E 1	Lincoln
Hill, Leon Ray	E, (S)	Geneva
Hill, Ona Blanche	Au, (FA)	Hardy
Hill, Vera May	CAu, (SM)	Hardy
Hiltner, Arthur Herbert	A 3	Lincoln
Hiltner, Walter Garfield	G	Lincoln
Hilton, Ethel Jane	T 4	Blue Hill
Hinds, Earle	Eu	Scottsbluff
Hines, Leon Llewellyn	A 1	Benkelman
Hinshilwood, Archie John	E 1	Simpson
Hinshilwood, Charles Judson	A 2	Simpson
Hisey, Albert Samuel	G	North Bend, Ore.
Hitchman, Raymond C.	E 1	Weeping Water
Hoatson, Vernon L.	CA 1	Hebron
Hobson, Opal	A 1, (SM)	Macedonia, Iowa
Hodapp, Edward Paul	A 3	Humboldt
Hodge, Bessie Jennings	T 1	Shelton
Hodekin, Walter Kidder	L 3	O'Neill
Hofeldt, John Henry	Au	Santee
Hoffiman, Frank	E 1	Dorchester
Hoffiman, Henry William	G	Lincoln
Hoffmeister, George W.	A 1	Imperial
Hofmann, Fred Wenzl	G	Omaha
Hogrefe, Hazel Clare	A 3	Stella
Hogue, Harry Chester	E 3	Crete
Holaday, Lillie Maurine	G, (S)	Lincoln
Holben, Hubert Young	A 1	Lincoln
Holcomb, Amy Marie	T 3	Lincoln
Holcomb, Mary Priscilla	T 2	Osceola
Holden, Ernest Lee	T, (S)	Laurel
Holland, Yale Chenoweth	A 4, L 3	Lincoln
Holling, John	E 3	Wood River
Holingsworth, Austin Jerome	G	Bethany
Hollister, Lela Pilcher	G	Lincoln
Holloway, Helen Marie	A 1	Lincoln
Holman, Grace M.	A 2	Tobias
Holman, Helen Orr	Au, (SM)	Tobias
Holman, Marguerite Beulah	A 1	Tobias
Holmes, Helma Lou	G, (FA)	Tecumseh
Holmes, Rachel Edna	T, (S)	Tecumseh
Holmes, Ruth Vashti	A 2, (S)	Lincoln
Holmes, Searle Francis	A 3	Omaha
Holtz, Frederick Carl	E 3	Wahoo
Hompes, Addie	T, (S)	Lincoln

Hooker, Catherine . . . . .	Au . . . . .	Adams
Hookstra, Merle Eliza . . . . .	T 1 . . . . .	Tonawanda, N. Y.
Hoppe, Albert August . . . . .	E 1 . . . . .	Lincoln
Hoppe, Grace Elizabeth . . . . .	T, (S) . . . . .	Hastings
Hopper, Margaret Amy . . . . .	CA, (S) . . . . .	Superior
Hopt, Erwin . . . . .	G . . . . .	Lincoln
Horn, Helen Alice . . . . .	CA 2 . . . . .	Omaha
Hornberger, Evans Zacharius . . . . .	L 1 . . . . .	Lincoln
Hornby, Harvey Benjamin . . . . .	E 1 . . . . .	Valentine
Hornung, Frank Walter . . . . .	E 4 . . . . .	College View
Horst, Philip Williams . . . . .	E 1 . . . . .	Osceola
Horton, Mary Gertrude . . . . .	A 1 . . . . .	Greeley
Hosford, Frederick Addison . . . . .	Eu . . . . .	Lincoln
Hostetler, Florence Maxine . . . . .	A 2 . . . . .	Kearney
Hough, Harry Cecil . . . . .	A 1 . . . . .	Pierce
Housel, Newton Austin . . . . .	Au, (Ex) . . . . .	Madison
Housh, Elsie Josephine . . . . .	T 1 . . . . .	Neligh
Houska, Marie Josephine . . . . .	T 4, (S) . . . . .	Omaha
Houston, Augusta . . . . .	A 1 . . . . .	Tekamah
Howard, Caroline Minerva . . . . .	A 1 . . . . .	Omaha
Howard, George Earle . . . . .	L 2 . . . . .	Lincoln
Howard, Harriette Lynne . . . . .	A 2 . . . . .	College View
Howard, Hazel Ann . . . . .	A 1 . . . . .	Omaha
Howard, Hugh . . . . .	E 2 . . . . .	Fremont
Howard, Potter Pitts . . . . .	A 1 . . . . .	Sunol
Howard, Rena Althea . . . . .	CA 2 . . . . .	Lincoln
Howard, Robert Francis . . . . .	C, (S) . . . . .	Lincoln
Howard, Rollins Stanley . . . . .	A 2 . . . . .	Phoenix, Arizona
Hrbkova, Sarka . . . . .	G . . . . .	Lincoln
Hrubesky, Lucile . . . . .	T 4 . . . . .	Geneva
Hubbell, Cliff Jay . . . . .	E 2 . . . . .	Deweese
Hubermann, Ernest John . . . . .	A 2 . . . . .	St. Paul
Huck, Carl Marshall . . . . .	E 1 . . . . .	North Bend
Hudson, Lucile Lorraine . . . . .	A 2 . . . . .	Hebron
Hudson, Myrtle Eleanor . . . . .	T, (S) . . . . .	Lincoln
Hudson, Vinda Virginia . . . . .	T, (S) . . . . .	Lincoln
Huff, Alice Helen . . . . .	Au . . . . .	Lincoln
Hughes, Eda May . . . . .	T 1 . . . . .	Schuyler
Hughes, Florence Azalea . . . . .	Au . . . . .	Lincoln
Hughes, Pearl Angela . . . . .	T, (S) . . . . .	Gretna
Hughes, Winifred . . . . .	Au . . . . .	Ottumwa, Iowa
Hullhorst, Mary Frederica . . . . .	G . . . . .	Lincoln
Hummel, Ethel Katherine . . . . .	A 2 . . . . .	Lincoln
Hummel, Lois Christian . . . . .	A 4, L 3 . . . . .	Humboldt
Hummel, N. Pearl . . . . .	T 1 . . . . .	Lincoln
Humpe, Alice A . . . . .	A 4 . . . . .	Lincoln
Humphrey, Elsie Irene . . . . .	Au, (SM) . . . . .	Howards, S. D.
Hungate, Mary Taylor . . . . .	T 2 . . . . .	Weeping Water
Hunkins, Ralph Valentine . . . . .	T 2 . . . . .	Stratton
Hunt, Glenn Howard . . . . .	A 1 . . . . .	Lincoln
Hunter, Annamae . . . . .	Au . . . . .	Lincoln
Hunter, Esther Amelia . . . . .	A 4 . . . . .	Fremont
Hunter, Myrtle Elizabeth . . . . .	T, (S, FA) . . . . .	Lebanon
Huntington, Imo Josephine . . . . .	T 2 . . . . .	Falls City
Huntington, Raymond Arthur . . . . .	E 3 . . . . .	Fremont
Hurtt, Leon Claude . . . . .	CA 1 . . . . .	Wilsonville
Huse, Harry Goodhue . . . . .	A 4 . . . . .	Fullerton
Husenetter, Clyde William . . . . .	E 1 . . . . .	Fremont
Hustead, Charles Delino . . . . .	A 2 . . . . .	Phillips
Huston, Ira Donald . . . . .	G, (S) . . . . .	Surprise
Hutchinson, Ethel Florence . . . . .	T 4, (S) . . . . .	Lincoln
Hutchinson, William Carlton . . . . .	E 4 . . . . .	Lincoln
Hutton, Elsie . . . . .	A 1 . . . . .	Lincoln
Hwaldt, Edward . . . . .	A 2 . . . . .	Randolph
Hyde, Edward Leslie . . . . .	L 1 . . . . .	Lincoln
Hyde, Elizabeth . . . . .	A 1 . . . . .	Lincoln
Hyde, Ray Bowerman . . . . .	E 4 . . . . .	Norfolk
Hyder, Ruth . . . . .	T 2 . . . . .	Lincoln

## THE UNIVERSITY OF NEBRASKA

Hyder, Verna Gretchen	A 3	Lincoln
Hymer, Clara Brown	CAu	Grand Island
Inholder, Benjamin John	A 1	Pierce
Inness, Robert John	E 2	Osceola
Ireland, Ethel Lena	G, (FA)	Gordon
Irvine, Robert Steele	A 3, M 1, (S)	College View
Irwin, Florence Irene	CAu, (SM)	Venango
Iseman, Eva Belle	T 1	Lincoln
Isham, Robert Melyne	G	Toronto, Canada
Iverson, Alice Rothwell	A 4	Lincoln
Iverson, Emma	Tu, (FA)	Riverton
Jackson, Arthur Earl	T, (S)	Nelson
Jackson, Charles Rawlins	A 1	Wymore
Jackson, Earl W.	T, (Ex)	Aurora
Jackson, Mabel Emily	Au	Lincoln
Jackson, Mayme E	Au	Lincoln
Jackson, William Edward	CA 1	Sheridan, Wyo.
Jackson, William Roberts	G	University Place
Jackson, Winifred Edith	Au, (S)	Lincoln
Jacobs, George Martin	G, (S)	Bethany
Jacobs, Laura M.	A 1, (SM)	Wahoo
Jacobson, Bert Alfred	E 2	Louisville
Jacobson, Clara Matilda	Tu	O'awa, Iowa
Jaeggi, Elsie Freda	A 1	Columbus
James, Thomas Albert	A 3	Lincoln
Jamison, Max Beverly	L 2	Weston
James, Lulu May	A 2	Lincoln
Janes, Percy Maxwell	A 2	Lincoln
Janouch, Clara	A 1, (SM)	Wilber
Jean, Frank Covert	T 4, (Ex)	Mynard
Jeary, Clark	L 1	Lincoln
Jeffery, Forest Vern	CA 1, (SM)	Wymore
Jeffery, Georgiana Sinclair	CA 1	Sloan, Iowa
Jenkins, Charlotte Louisa	CA 1	Lincoln
Jenkins, Frank Baronowsky	Au	Lincoln
Jenkins, Margaret Fuller	T 1	Lead, S. D.
Jenkins, Roscoe Conklin	E 1	St. Mitchael
Jenks, Everett Milton	L 1	Scranton, Iowa
Jennings, Caddy Winifred	A 1	Gothenburg
Jennings, Orie Donald	A 1	Edgar
Jensen, John Christian	G, (S)	University Place
Jensen, Lydia	T 1, (S)	Blair
Jerome, Sister Mary	T, (S)	Jackson
Jess, Helen Madeline	T 1	Plattsmouth
Jewell, Stella Louise	A 2, (S)	Weeping Water
Johnson, Bruce Begley	L 1	Lincoln
Johnson, Clarke Willard	L 1	Fremont
Johnson, Earle George	G, M, (S)	Fremont
Johnson, Evelyn Eleanor	CA 3	Oakland
Johnson, Hannah Lucile	T 1	Lincoln
Johnson, Harry Walter	A 3	Oakland
Johnson, Hazel Athene	A 3	Pawnee City
Johnson, Joseph Vincent	A 1, (SM)	Lincoln
Johnson, Leona	T 2, (SM)	Lincoln
Johnson, Mary Ethel	A 3	Lincoln
Johnson, Tressa Beatrice	T, (S)	Fairbury
Johnson, Paul Alfred	E 3	Red Cloud
Johnstone, Harvey Melanchthon	G	Lincoln
Jones, Ada Magee	G	Roanoke, Mo.
Jones, Effie Louise	T 3	Normal
Jones, Elmer A.	E 1	Carroll
Jones, Frank Lorenzo	E 3	Lincoln
Jones, John Willis, Jr.	L 2	Lincoln
Jones, Mariel Theresa	A 3, (SM)	Lincoln
Jones, Myrna Vance	T 1	Hendley
Jones, Nellie Marian	T 2	Normal
Jones, Olive Mildred	T 4	Hastings
Jones, Orville Leroy	L 1, (S)	Neligh

Juergens, Hermann . . . . .	A 1 . . . . .	Scottsbluff
Juhl, Andrew Petersen . . . . .	A 4, (S) . . . . .	Lincoln
Jury, Jessie Belle . . . . .	G. . . . .	Lincoln
Jussel, Martin Simon . . . . .	G, CA, (S) . . . . .	Indianola
Kamerer, Ruby Vera . . . . .	T, (S) . . . . .	Raymond
Kanaga, Paul Hartzler . . . . .	G, (S) . . . . .	Lincoln
Kannow, Amanda Charlotte . . . . .	A, (S) . . . . .	Culbertson
Karten, Clara Caroline . . . . .	T, (S) . . . . .	Crete
Kate, Alice . . . . .	A 3 . . . . .	Wayne
Kautz, Archie Rodkey . . . . .	A 1 . . . . .	Nebraska City
Kay, Mildred Ida . . . . .	T 2 . . . . .	Ewing
Keech, John McCappin . . . . .	E 1 . . . . .	Lincoln
Keech, Mary Lourena . . . . .	T 4, (S) . . . . .	Lincoln
Keegan, John Jay . . . . .	A 4, M 1 . . . . .	Alliance
Keifer, Joseph William . . . . .	CA 4 . . . . .	Bostwick
Keifer, Lucy Stout . . . . .	A 3 . . . . .	Bostwick
Keifer, Margaret Eliza . . . . .	A 2 . . . . .	Bostwick
Keifer, Oswin . . . . .	A 1 . . . . .	Bostwick
Keirle, Clifford Charles . . . . .	E 1 . . . . .	Florence
Keith, Alonzo Fred . . . . .	A 2 . . . . .	Curtis
Keith, Edgar Lawrence . . . . .	E 2 . . . . .	Curtis
Keller, Esther . . . . .	G . . . . .	Lincoln
Keller, Olive Hawley . . . . .	T 3 . . . . .	Lincoln
Kelley, Gertrude Emma . . . . .	T, (S, FA) . . . . .	Blair
Kellner, Raymond Howard . . . . .	E 2 . . . . .	Scribner
Kellogg, Rachael Louise . . . . .	A 1 . . . . .	Nebraska City
Kelly, Charlotte Margaret . . . . .	A 3 . . . . .	Homer
Kelsey, Thomas Conklin . . . . .	E 4 . . . . .	Lincoln
Kendrick, Raymond Henderson . . . . .	G . . . . .	Lincoln
Kennedy, Alfred Conkling, Jr . . . . .	A 1 . . . . .	Omaha
Kennedy, Ruby Hazel . . . . .	T, (S, SM) . . . . .	Lincoln
Kenner, Walter Vern . . . . .	L 3 . . . . .	Omaha
Kenny, Ernest Floyd . . . . .	Au . . . . .	Lincoln
Kenny, Raymond Everett . . . . .	G . . . . .	University Place
Kepner, Raymond Brandt . . . . .	A 1 . . . . .	Havelock
Kerrigan, Sara Catherine . . . . .	T, (S) . . . . .	Greeley
Kess, Anna Barbara . . . . .	T 3, (S) . . . . .	Lincoln
Kessler, Arthur Rolland . . . . .	E 4 . . . . .	Sutton
Keszler, Annetta Elizabeth . . . . .	T, (S) . . . . .	Martell
Kidd, Dora Aldona . . . . .	CA 3 . . . . .	Beatrice
Kiddoo, Guy Cabbell . . . . .	A 3 . . . . .	South Omaha
Kieck, William Gehrt . . . . .	E 1, (S) . . . . .	Springfield
Killian, Raymond Albert . . . . .	CA 2 . . . . .	Wahoo
Kimball, Marjorie . . . . .	A 1, (SM) . . . . .	Lincoln
Kimberly, Nellie Content . . . . .	A 3 . . . . .	Lincoln
Kimmel, Martha Belle . . . . .	T, (S) . . . . .	Lincoln
King, Dexter D . . . . .	M 1 . . . . .	Lincoln
Kingsley, Ellen Morris . . . . .	A 3 . . . . .	Minden
Kinney, Harvey Smith . . . . .	E 2 . . . . .	Woodbine, Iowa
Kinsman, Claude Dennis . . . . .	E 3 . . . . .	Columbus
Kinsman, Katey Lora . . . . .	T 2 . . . . .	Columbus
Kiplinger, Lloyd Addison . . . . .	L 3 . . . . .	Lincoln
Kiplinger, Ralph Ernest . . . . .	E 3 . . . . .	Holdrege
Kirkpatrick, Louise Armina . . . . .	CA 1 . . . . .	Ashland
Kirschstein, Irène Bates . . . . .	A 1 . . . . .	Omaha
Kissinger, Ralph Peter . . . . .	CA 1 . . . . .	Fairfield
Kjeldgaard, Andrew . . . . .	E 1 . . . . .	Blair
Kjelson, Astred Althea . . . . .	CA 1 . . . . .	Gothenburg
Klein, Millard Alschuler . . . . .	G . . . . .	Lincoln
Klepser, Fred . . . . .	A 1 . . . . .	Weeping Water
Kline, Howard Esher . . . . .	G . . . . .	University Place
Kline, Philip . . . . .	A 1 . . . . .	Omaha
Klinker, Mary Marguerite . . . . .	A 2, (SM) . . . . .	Lincoln
Knepper, Kathryn Mae . . . . .	A 2 . . . . .	Lincoln
Knepper, Ruby Rosamond . . . . .	T, (S) . . . . .	Lincoln
Knoll, Louis Jarret . . . . .	A, (S) . . . . .	Crete
Knouse, Earle . . . . .	L 1 . . . . .	Beatrice
Knowlton, Blanche Gertrude . . . . .	Au . . . . .	Lincoln

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Knudsen, Minnie.	T, (S)	Macedonia, Iowa
Koehler, Ina	A 1	Lincoln
Kohn, Pauline.	A 2, (SM)	Clarks
Kokjer, Hans Madison, Jr.	E 3	Grand Island
Kolls, Klindt.	E 2	Lincoln
Korstian, Clarence F.	CA 3, (S)	Columbus
Kotlar, Frank John.	M 1	Arlington
Krajicek, Steven	E 1	Aurora
Kramer, Bertha Nathalia	A 4	Lincoln
Kramer, Herman Frederick.	E 2	Omaha
Kranz, Leslie Henry	A 1	South Omaha
Kraus, Edward Joseph	E 2	South Omaha
Kraus, Leo William	Au	Albion
Krause, Harold Paul.	A 1	Schuyler
Krause, Rose Catherine.	T 1, (SM)	Albion
Krause, Victor Walton.	A 4, L 1	Lincoln
Kremer, Clarence Joseph	E 3	Lincoln
Krisl, Agnes Lucile	A, (S)	Lincoln
Krish, John.	Au	Lincoln
Krish, Mary Ellen	A 1	Lincoln
Kruckenberg, Minnie Edith	G	Lincoln
Krueger, Gerhard Martin	A, (S)	Lincoln
Krueger, Johanna Pauline Dorothea	G	Lincoln
Krueger, John Fritz.	G	Lincoln
Krueger, Theodore.	CA 2, A 2	Lincoln
Krug, William Jennings	E 3	South Omaha
Krugg, Morton Howard Robert	L 1	Joplin, Mo.
Kruse, Frank Jacob.	A 1	Lincoln
Kryger, Ralph Mallory	L 1	Neligh
Kuennen, Arnold Christian.	CA 2	Cook
Kuhn, Ada Ruth	T 1, (SM)	Lincoln
Kuhn, Ewing Williams	Au	Lincoln
Kuhn, Gladys Francis	T 1	Osceola
Kunkel, Margaret Anita	T 2	Omaha
Kuony, John Hubert.	E 4	Ohiowa
Kuska, Joseph Benjamin.	CA 2	Bayard
Kuska, Valentine.	CA 1	Tecumseh
Kuster, Louis Christopher	T, (S)	Lincoln
Kyle, Homer Lewis.	L 1	Lincoln
Lacey, Lydia Eva	A 3	Lincoln
Lackey, Earl Emmet.	T 4, (S)	Lincoln
Ladd, Della.	A 2, (SM)	Albion
Lahners, Thomas, Jr.	A 2	Belvidere
Lally, Eleanor Mary.	Au, (S)	Lincoln
Lamb, George Newton.	G	Lincoln
Lamb, Orin Renwick	Mu	Wahoo
Lamb, William Harrison	A 3	Lincoln
Lambert, Eva	A 1	Grand Island
Lambert, Leroy Schuyler.	E 3	Kearney
Lamborn, Louise Ward	T, (S, FA)	Palmyra
Lamborn, Pearl Jane.	T, (S, FA, SM)	Palmyra
Lammers, Anna Irene.	T 4, (S)	Lincoln
Lammers, Sophia Josephine.	T 4, (S)	Lincoln
Lampert, Benjamin Mathias.	E 1	Cedar Bluffs
Lanson, Pearl Hildreth	A, (S, Ex)	Orleans
Lanson, Trella June.	A, (S).	Orleans
Landers, Charles Bell	E 2	Norfolk
Lane, Aletha Viola.	A 4, (FA).	Doniphan
Lane, Daisy Lenore.	T 1	Doniphan
Lane, Darrell Thomas.	A 2	Ravenna
Langer, Irvin Joseph	L 2	Wilber
Lantz, Earl William.	A 3	Kearney
Lapp, Dale.	G, (FA)	Nelson
Larson, Albin Victor	E 1	Arapahoe
Larson, Lillie Nathalia	Au	Arapahoe
Larson, Mertina Elizabeth.	Au	Stroudsburg
Lashinsky, Max.	Fu	Lincoln
Lathrop, Louis Arthur	CA 2	Swanton, Ohio

Latta, Emery Coleman . . . . .	A 1	Tekamah
Laubach, Walter Howard . . . . .	E 3	Omaha
Laudermilch, Virginia Sara . . . . .	Au. (FA)	Hastings
Laughlin, Joseph Wilson . . . . .	A 4, M 2, (S).	Callaway
Laune, Ferris Finley . . . . .	A 1	Lincoln
Lawler, John Arthur . . . . .	L 1	Hastings
Lawrence, Helen Irene . . . . .	A 2	Fremont
Lawrence, James Ernest . . . . .	L 3	Beatrice
Lea, Walter Henry . . . . .	E 1	Silver Creek
Leahy, William Richard . . . . .	A 1, (SM)	Lincoln
Leamer, George William . . . . .	A 3	Dakota City
Leamer, Pearl Estella . . . . .	A. (S.)	Dakota City
Leaming, Charlotte Marion . . . . .	A 1	Lincoln
Leavitt Frederick William . . . . .	G, (S)	Franklin
Lee, Bernice Marie . . . . .	T 3	Shelton
Lee, Earl Jackson . . . . .	A 4, L 1	Fremont
Lee, Jessie Alice . . . . .	G, (S. SM)	Lincoln
Lee, Kirk Charles . . . . .	E 1	Fremont
Lehew, Robert Milton, Jr. . . . .	A 2	Lincoln
Lehman, Clyde William . . . . .	T 2	Superior
Lehmer, John Theodore . . . . .	A 1, (SM)	South Omaha
Lehmer, Lloyd Herbert . . . . .	A 1	South Omaha
Lehmer, Philip Thain . . . . .	E 2, A 2.	Omaha
Leinbaum, Carl Christ . . . . .	CA 1	College View
Lempke, Walter John . . . . .	E 4	Pender
Leonard, George Kinney . . . . .	E 3	Lincoln
Leonard, Seward Vern . . . . .	L 1	University Place
LePoidevin, Marie Alice . . . . .	CA 1	Beatrice
Lerman, Baruch . . . . .	E 1	Omaha
Leroy, Glen Raymond . . . . .	E 4	Fairbury
Lerum, Lillian . . . . .	A 1	Plainview
Lester, Claud Frederick . . . . .	G	Lincoln
Lester, Elda M. . . . .	Au.	Lincoln
Letton, Will Adam . . . . .	A 2	Lincoln
Levi, Mrs. Eugene . . . . .	Au.	Lincoln
Levy, Helen Caroline . . . . .	Au.	Lincoln
Levy, Marguerite Mabel . . . . .	A 2	Hastings
Lewis, Charles Leslie . . . . .	E 1	Fairfield
Lewis, Eber Brock . . . . .	CA 3	Superior
Lewis, Etta May . . . . .	T 2, (S)	Lincoln
Lewis, Lorena Jeannette . . . . .	T, (S)	Lincoln
Lewis, William Jackson . . . . .	L 1	Lincoln
Liberman, Walter Ernest . . . . .	A 1	Friend
Lichtenwallner, Marjorie . . . . .	A 2	Dunbar
Lichty, Lester Clyde . . . . .	E 2	Carleton
Liddell, George Turner . . . . .	A 1	Tecumseh
Liebers, Otto Hugo . . . . .	CA 2	Minden
Liephart, Clyde Merton . . . . .	A 1, (S)	Lincoln
Liggett, Ethel Merle . . . . .	CAu.	York
Liljenstolpe, Carl Axel Knutson . . . . .	E 1	Benson
Linch, Lete Blanche . . . . .	T 3	Lincoln
Lincoln, Oren Ellsworth . . . . .	L 1	Lincoln
Lindberg, Emil August . . . . .	E 3	Craig
Lindley, Edna Ruth . . . . .	T 2	Omaha
Lindley, Leone . . . . .	T 3, (S)	Lincoln
Lindsay, Raymond Argyle . . . . .	E 1	Sidney, Iowa
Lindsey, Cornelia Frances . . . . .	T 3	Lincoln
Linger, Earl Albert . . . . .	A 3, M 1	Havelock
Linn, John Lovejoy . . . . .	A 1	Omaha
Linn, Theola Maude . . . . .	T, (S)	North Bend
Linstrum, Arthur Chandler . . . . .	E 2	Columbus
Lionberger, Earle Lester . . . . .	A 3, (SM)	Superior
Littel, Charles Lester . . . . .	A 3, (S. Ex.)	Lincoln
Lively, Quinton V. . . . .	E 1	Falls City
Livermore, Guy Ernest . . . . .	T, (S. Ex.)	Comstock
Lloyd, Lucile Marguerite . . . . .	A 2	York
Lloyd, Lynn . . . . .	A 4, L 1.	Omaha
Lobb, Earl Milton . . . . .	L 1	Sidney

Lockwood, Margaret Matilda	G	Pittsford, Mich.
Lockwood, Russell Newman	E 1	Omaha
Lofgren, Gus Adolph	E 3	Ponca
Logan, Jessie Frances	A 2	Lincoln
Long, Edith	G	Lincoln
Long, Evangeline	A 2	Kearney
Long, Frank Edward	A 2	Lincoln
Long, Mabelle Virginia	A 3	Madison
Long, Margaret Eleanor	CA 1, (SM)	Kearney
Long, William Ernest	A 1	Bethany
Longman, Effie May	G, (S)	Madison
Lonneker, Adah Marion	Au	Ottumwa, Iowa
Loomis, Fred Palmerlee	A 1	Lincoln
Loomis, James Rounds	A 1	Lincoln
Loomis, Lucinda Bills	G	Lincoln
Lord, Carl Jacobs	A 4	Randolph
Losch, Mark Clement	A 1	West Point
Lothrop, Grant	T 1, (S)	Blair
Lounsbury, Ralph Robert	E 1	Aurora
Lowry, Kathryn Marie	T 2	South Omaha
Lucas, Olive Ruth	A 1	Foster
Luckey, Bertha Musson	G	Lincoln
Luckey, George Paul	G	Lincoln
Luckey, Henry Carl	A 4, L 2, (S)	Lincoln
Ludden, John Ernest	CAu	Lincoln
Ludwig, Zella Edith	A 1, (SM)	Arlington
Luff, Alonzo Worth	Mu	Friend
Luikart, Ralph Herbert	A 3, M 1	Lincoln
Lute, Carrie Lula	A 3	Paxton
Lyford, Gertrude Marion	A, (S)	Falls City
Lyford, Grace	A, (S)	Falls City
Lyman, Blanche M	A 3	Lincoln
Lyman, Richard Forsey	E 1	Fort Crook
Lynch, Annie Laurie	G	Lincoln
Lynch, Lindon Lamar	E 1	Lincoln
Lynch, Mary Alice	G	Omaha
Lyons, Flossie Louise	T 3	Asylum
Lzicar, George	CA 3, A 3.	Chadron
McBride, Horace Logan	A 1	Elgin
McBride, Maud Mildred	Tu	Lincoln
McBrien, Dean D	T 2	Lincoln
McBrien, Rufus Orville	T, (S)	Lincoln
McCaffrey, Thomas Sherman	E 3	Omaha
McCague, Anna Catherine	T 2	Omaha
McCaig, Ella Imogene	T 4	Omaha
McCallum, Jessie Eugenia	G	Lincoln
McClure, Leah May	T 4	Lincoln
McCluskey, Roy A	CA 1	Nelson
McCoid, Tress	T 2	Logan, Iowa
McComb, Mollie June	A 3	Wilsonville
McConnell, Florence S.	G, (S)	Lincoln
McConnell, Frederic Charles	L 1	Omaha
McConnell, Grace	T 1	Lincoln
McConnell, William Estill	A 3	Lincoln
McCorkindale, Isabel Helen	T 1	Odebolt, Iowa
McCorkle, Zee Winifred	A 1	Albion
McCormick, Leroy	L 1	Orose, Cal.
McCready, Eda Vern	A 1	Macedonia, Iowa
McCullough, Alice John	T 4	Omaha
McCullough, Roger Shaw	E 1	Omaha
McDavitt, Lavern	A 4	Hastings
McDermott, Leona Agnes	T, (S)	Greeley
McDill, Rex DeOre	Au	Lincoln
McDole, Guy Raymond	G	University Place
McDonald, James Patrick	E 2	Humphrey
McDonald, Ruth Marie	A 2	Omaha
McDowell, Mary Mabel	T 2	Lyons
McDowell, Ward	L 1	Hardy
McGahey, Jean Elizabeth	A 3	Lincoln

McGee, Edward Clarke	E 3	Clearwater
McGee, Randall R.	A (S, Ex)	Lincoln
McGowan, Walter Ivan	A 3	Scottsbluff
McGrath, Wilmer Delavergne	A 2	Elsie
McHugh, Robert Emmet	A 2	Lincoln
McIntosh, Grace	T 1	Lincoln
McIntosh, Nelle	T 4	Lincoln
McKee, Clarence Stiles	A 2	Albion
McKee, Earl Cleveland	L 2	Lexington
McKellip, Ivan	CA 4	Albion
McKelvie, Hiram Claude	Au	Lincoln
McKibbin, Charles Raymond	A 2	Grand Island
McKibbin, Dora Belle	T1, (S)	Lincoln
McKinney, Harold Frederick	L 1	Omaha
McKinnon, Claire Anna	T 3	Siloam Springs, Ark.
McLafferty, Joel Edward	E 2	Omaha
McLain, Grace Norris	Au, T, (S)	University Place
McLean, Earl	A 4	University Place
McLean, Wallace	Au	Lincoln
McLeannan, Kenneth Wright	A 1	Lincoln
McMahon, Grace Ellen Marie	T 1	Blair
McMillan, William Stuart	CAu	Reno, Nev.
McNabb, Harold Sanderson	E 1	Lincoln
McNeen, Gertrude Olive	A 1, (SM)	LaJunta, Colo.
McNerney, Louise Elizabeth	A 2	Lincoln
McSherry, Ruth Vivien	CA 1, (SM)	Broken Bow
McVeigh, Mabelle Rae	G	Norfolk
Macdougall, Raymond Barrows	E 1	Lincoln
MacMillan, Ruth Dexter	A 1	Falls City
Magnuson, Harry Peter	CA 1	Gothenburg
Magor, Louis Roland	A 1	Brownville
Mahannah, Mary Blanche	T 1	Lincoln
Mahler, Lilly	Au	Thalwyl, Zurich, Switzer'd
Mahood, Samuel Arthur	G	Columbus
Makeever, Iva	T, (FA, S)	Stromsburg
Makeever, Merle	T, (FA, S, Ex)	Stromsburg
Malick, Jesse Uriah	A 3, (4 yr. Pharmacy)	Bloomington
Malone, Celia Genevieve	A 3	Omaha
Malone, Florence	Au, (SM)	Lincoln
Maloney, Jessie Ethel	A 1, (HS)	Lincoln
Malowney, James Robert	E 2	Wymore
Malsbury, Fay	Tu	Lincoln
Mann, George Russell	A 2	Ord
Mann, Hazel Dell	A 1	Lyons
Mann, William Rufus	G	Eagle
Mansfield, Margaret	A 1	Lincoln
Manville, Charles Veits	A 1, (SM)	Colon
Marcellus, Byrne Campbell	A 4	Lincoln
Marcellus, Edward Winifrid	G, (S)	Crete
Marconnit, Fred P.	L 3	Lincoln
Markward, Herbert William	CAu	Funk
Marohn, Beulah Juliet	A 1	Lead, S. D.
Marrs, Ralph Merton	T, (S)	Bayard
Marsh, Harry Vernon	A 2	University Place
Marshall, Roy Edgar	CA 2	Lincoln
Martin, Alice Zota	Au	Lincoln
Martin, James Russell Ray	E 3	Holdrege
Martin, James Canaden, Jr.	A 1	Central City
Martin, Minnie Alice	Au	Fairbury
Martin, Roy David	M 4	Omaha
Martin, Wade Randall	CA 4	Lincoln
Martins, Herman Robert	A 2	Enid, Okla.
Mason, Bessie Pearl	A 1	Beaver City
Mason, John Russell	E 1	Falls City
Mastin, Addie	A, (S)	Republican City
Matheny, Lenora	T, (S, Ex)	Alma
Mather, Roy Frederick	A 4	Aurora
Matheson, Earl Alexander	E 1	Stanton
Mathews, Elsie Forest	A 3	Wymore

Mathewson, Louise.....	Au.....	Lincoln
Matrau, Agnes.....	A 3.....	Norfolk
Matthews, Edna E.....	T 1.....	Lincoln
Matthews, Homer Lawrence.....	CA 4.....	Auburn
Mattill, Andrew Jacob.....	G.....	Falls City
Mattox, John Galon.....	E 1.....	Scottsbluff
Mauk, Margery.....	CAu.....	Harrisburg
Maxfield, Beth Eloise.....	A 4, (FA, SM).....	Lincoln
Maxfield, Don Deal.....	CA 1.....	Lincoln
Maxfield, Miriam Grace.....	T 2.....	Lincoln
Maxwell, Elizabeth.....	Au.....	Lincoln
Maxwell, Elizabeth.....	Au.....	Lincoln
Maxwell, James Taliaferro.....	M 3.....	South Omaha
May, Arthur Arnold.....	A 2.....	Gothenburg
May, Pearl Florence.....	T 4.....	Lincoln
Mayer, Alfred.....	A 1.....	Lincoln
Mayland, Dorothy Sophie.....	G.....	Seward
Mayland, William Foster.....	A 2, (S).....	Seward
Mayle, Fred Irvin.....	E 1.....	Blair
Mead, Adelia May.....	A 4.....	York
Mead, John Frank.....	L 1.....	Omaha
Means, Paul Banwell.....	A 1.....	Orleans
Medlar, Edgar Matthias.....	M 2, G.....	Crete
Meeker, David Franklin.....	A 1.....	Imperial
Meier, George Edward.....	L 3.....	Lincoln
Mekota, Beatrice Machula.....	A 3.....	Lincoln
Melick, Bertha Lucile.....	A 3.....	Bethany
Melick, Florence Hazel.....	Au, (S).....	Bethany
Meliza, Kathryn Margaret.....	Au, (SM).....	Verdon
Melville, James Alfred.....	A 2.....	Sterling
Meredith, Louise.....	T 2.....	Lincoln
Meredith, Mamie.....	A 3.....	Lincoln
Merrick, Curtis.....	CA 1.....	Adams
Merrill, Lena.....	Au.....	Lincoln
Merryweather, Elmer Charles.....	E 2.....	Valley
Metcalf, Mabel Clare.....	T 4, (S).....	Broken Bow
Metcalf, Richard Lee.....	A 1.....	Lincoln
Metcalf, William Buehler.....	Lu.....	Lincoln
Metzger, Mary Pattie.....	CA 3, (FA).....	Cedar Creek
Meyer, Carl Augustus.....	M 1.....	University Place
Meyer, Carl Tszuchuck.....	E 2.....	Omaha
Meyer, John Richard.....	A 1.....	Lincoln
Meyers, Peter Thomas.....	E 1, CA 1.....	Hendley
Michie, John Fremont.....	CA 1.....	Lincoln
Mielenz, Howard Hamilton.....	L 3.....	Wahoo
Milek, William Arthur.....	E 4.....	Lineoln
Miles, Erwin Laurence.....	E 1.....	Blair
Miles, Frank C.....	Au.....	Lynch
Miles, Seth Herbert.....	A 2, M 1, (S).....	College View
Miller, Clarence Edison.....	T 2.....	Arapahoe
Miller, Donald Walters.....	A 2.....	Lincoln
Miller, Dorothy Tibbets.....	A 4, (S).....	Lincoln
Miller, Edna Emma.....	T 2, (S).....	Rising City
Miller, Edna Grace.....	A 2.....	Lincoln
Miller, Effie Irene.....	A 2.....	Kearney
Miller, Eleanor Tibbets.....	G, (S).....	Lincoln
Miller, Gertrude Anna.....	A 4.....	Beatrice
Miller, Harold Pearl.....	E 1.....	Lincoln
Miller, Louisa Krebs.....	T, (S).....	Lincoln
Miller, Louise.....	G.....	Lincoln
Miller, May.....	A 3.....	Lincoln
Miller, Millie Lucile.....	A 4.....	Lincoln
Miller, Otto William.....	L 1.....	Atlantic, Iowa
Miller, Theodore, Jr.....	A 1.....	Sutton
Mills, Hugh Lorrain.....	E 1.....	Omaha
Minakami, A Kunitada.....	E 1.....	Uyeda, Japan
Minor, Harry Ross.....	Au, (S).....	Lincoln
Miskell, Berna Ann.....	CA 4.....	Lincoln
Miskell, Clara May.....	A 2, (FA).....	Lincoln

## ROSTER OF STUDENTS

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Mitchell, Claude William . . . . .	G, M 2 . . . . .	Lincoln
Mitchell, Guy Euston . . . . .	E 1 . . . . .	Waverly
Mitchell, Helene Schwab . . . . .	A 4 . . . . .	Lincoln
Mitchell, Joseph Clark . . . . .	A, G, (S) . . . . .	Lincoln
Mizera, Frank Harold . . . . .	L 2 . . . . .	Morse Bluff
Mockett, Alice Julia . . . . .	A 3 . . . . .	Lincoln
Mockett, Kathryn Marie . . . . .	A 2 . . . . .	Lincoln
Mockett, Mary Florence . . . . .	A 1 . . . . .	Lincoln
Moffett, Beatrice . . . . .	Au, (S) . . . . .	Lincoln
Monbeck, Roy Royer . . . . .	E 4 . . . . .	Lincoln
Monfort, Laura Belle . . . . .	T, (S, Ex) . . . . .	Randolph
Monroe, Ernest Franklin . . . . .	G, (S) . . . . .	Shelton
Montank, Irwin Aaron . . . . .	CA 2 . . . . .	Lincoln
Montgomery, Glenn Edgerton . . . . .	E 2 . . . . .	Raymond
Montgomery, Igerna . . . . .	CA 2, (S, SM) . . . . .	Lincoln
Montgomery, Ora Claire . . . . .	E 4 . . . . .	Scribner
Moomaw, Leon A . . . . .	Au . . . . .	Bayard
Moon, Charles Franklin . . . . .	A 3, M 1 . . . . .	Ashland
Moore, Avilda Downing . . . . .	T 1 . . . . .	Omaha
Moore, Calvin Turner . . . . .	E 4 . . . . .	Lincoln
Moore, Charles Royal . . . . .	Au, (S) . . . . .	Lincoln
Moore, Roy Walker . . . . .	E 2 . . . . .	Seward
Moore, Texa Laura . . . . .	A 2 . . . . .	Holdrege
Moorman, Basil Jones . . . . .	CA 1 . . . . .	Lynchburg, Va.
Morehead, Dorothy Lee . . . . .	T 4 . . . . .	Falls City
Morehouse, Nye Franklin . . . . .	L 3 . . . . .	Fremont
Morey, Constance . . . . .	T 2 . . . . .	Omaha
Morgan, Janice Elizabeth . . . . .	A 3 . . . . .	Lincoln
Morgan, Jennie Amelia . . . . .	G . . . . .	University Place
Morgan, Kathleen Patience . . . . .	A 1, (SM) . . . . .	Chadron
Morgan, Kathryn Jennie . . . . .	T 2 . . . . .	Lincoln
Morgensen, Walter Almun . . . . .	E 1 . . . . .	Arlington
Moritz, Clara Pauline . . . . .	T, (S) . . . . .	Davey
Morley, Bert Elsworth . . . . .	E 2 . . . . .	St. Paul
Morrell, Emma Enid . . . . .	G . . . . .	Palmyra
Morris, Ethel Adelaide . . . . .	CA 1 . . . . .	St. Paul
Morris, Virginia . . . . .	A 2 . . . . .	Nodaway, Iowa
Morrison, Alice . . . . .	G, (S) . . . . .	College Springs, Iowa
Morrison, Ella King . . . . .	Au, (SM) . . . . .	Lincoln
Morrison, Estelle Rees . . . . .	G . . . . .	Lincoln
Morrison, Harold Fleming . . . . .	A 2 . . . . .	Ontario, Ore.
Morrison, Harold Meredith . . . . .	E 1 . . . . .	Norfolk
Morrison, Harvey Arch . . . . .	G . . . . .	College View
Morrison, James Victor . . . . .	A 1 . . . . .	Omaha
Morse, Anna Esther . . . . .	T, (S) . . . . .	Minneapolis, Minn.
Morse, Harold McKinley . . . . .	A 1 . . . . .	Clarks
Morse, William Best . . . . .	L 1 . . . . .	Vancouver, B. C.
Mortensen, Crawford Jay . . . . .	L 1 . . . . .	Ord
Mortensen, Mamie M . . . . .	T, (S, FA) . . . . .	Aurora
Mortimer, Agnes Ogilvie . . . . .	Au . . . . .	Lincoln
Morton, William Henry Stephenson . . . . .	G, (S, Ex) . . . . .	Fairmont
Moseley, Glen . . . . .	A 1, (HS) . . . . .	Lincoln
Moseley, Ralph Stuart . . . . .	L 2 . . . . .	Lincoln
Moseley, Thomas Wesley . . . . .	CA 3 . . . . .	Lincoln
Moser, Reuben Allyn . . . . .	A 3, M 1 . . . . .	Omaha
Mossman, Gladys Eloise . . . . .	A 1 . . . . .	Lincoln
Mottinger, Alvina Louise . . . . .	A, (S, Ex) . . . . .	Merna
Mottinger, Charles Wesley . . . . .	A, (S, Ex) . . . . .	Merna
Moyer, Torrence Calvin . . . . .	M 2, A 4, (S) . . . . .	Lincoln
Mueller, Emma Gertrude . . . . .	A, (Ex) . . . . .	Syracuse
Mullen, Bernard Sebastian . . . . .	E 1 . . . . .	O'Neill
Mullen, John Clancy . . . . .	L 2 . . . . .	O'Neill
Mullen, Phoebe . . . . .	Au . . . . .	Lincoln
Mulligan, Harold Rowe . . . . .	A 2 . . . . .	Beatrice
Mullin, Lillie May . . . . .	T, (S) . . . . .	Crete
Mumma, Mildred Lois . . . . .	Au, (FA) . . . . .	Lincoln
Munday, Frank John . . . . .	A 4, L 2, (S) . . . . .	Edison
Munger, Alfred Case . . . . .	A 4, (S) . . . . .	Lincoln
Munger, Arbor Day . . . . .	A 1 . . . . .	Lincoln

Munger, Ruth . . . . .	A 3 . . . . .	Lincoln
Munn, George Alvin . . . . .	A 2 . . . . .	Ord
Munson, Earle Walter . . . . .	A 4 . . . . .	Aurora
Munson, Elroy Stewart . . . . .	A 4, L 1 . . . . .	Aurora
Munson, Grace Esther . . . . .	T 4, (S, SM) . . . . .	Orleans
Murphy, Eleanor Lucile . . . . .	CA 1 . . . . .	Homer
Murphy, Louie Frances . . . . .	Au, (Ex) . . . . .	York
Mutz, Sterling Faan . . . . .	L 3 . . . . .	Lincoln
Myers, George Washington . . . . .	Tu, (Ex) . . . . .	Snyder
Myers, Lloyd . . . . .	E 1 . . . . .	Ft. Crook
Myers, Lottie Kate . . . . .	T, (Ex) . . . . .	Haigler
Nafziger, Edward P. . . . .	T 2 . . . . .	Lincoln
Nagl, Carl Ferdinand Julius . . . . .	E 1 . . . . .	Omaha
Nagl, Julia Peggy Margaretha . . . . .	T 4 . . . . .	Omaha
Nason, Florence Barney . . . . .	CA 1 . . . . .	Omaha
Neal, Irene Sterling . . . . .	A 1 . . . . .	Kansas City, Mo.
Neal, John Donald . . . . .	A 1, (SM) . . . . .	Kansas City Mo.
Neale, Edith Louise . . . . .	T 1 . . . . .	Ft. Calhoun
Needham, Daisy Jeanette . . . . .	G . . . . .	Bostwick
Neff, Adolph Anton . . . . .	E, (S) . . . . .	Nebraska City
Neff, Aletta . . . . .	CA, (S) . . . . .	Wymore
Negley, Noel Ardis . . . . .	T 3 . . . . .	Ansley
Neligh, Phillis Readinger . . . . .	A 1 . . . . .	West Point
Nelson, Arthur Elton . . . . .	CA 3, (S) . . . . .	Harlan, Iowa
Nelson, Enoch Wesley . . . . .	CA 3 . . . . .	Lincoln
Nelson, Leon Miller . . . . .	CA 1 . . . . .	Omaha
Nelson, Nels Morris . . . . .	E 1 . . . . .	Blair
Nelson, Nora Johanna . . . . .	T 1 . . . . .	Lincoln
Nelson, Sherman . . . . .	A 2 . . . . .	Oakland
Nelson, William Albert . . . . .	E 1 . . . . .	Brayton, Iowa
Nesbit, John Arthur . . . . .	A 2, (SM) . . . . .	Tekamah
Newbranch, Grace Vivian . . . . .	A 4 . . . . .	Lincoln
Newell, Cyrus Edwin . . . . .	T, (S) . . . . .	Elgin
Newman, Allen Thurman . . . . .	A 3 . . . . .	Hebron
Newman, Cora Anna . . . . .	A 4 . . . . .	Lincoln
Newmark, Jessie Alice . . . . .	A, (S) . . . . .	Lincoln
Newmyer, Clara Anna . . . . .	T 2 . . . . .	Lyons
Nicholls, Carroll Clifford . . . . .	E 1 . . . . .	Kenesaw
Nicholls, Charles Leslie . . . . .	G . . . . .	Lincoln
Nicholls, Theo B. . . . .	CA 2 . . . . .	Lincoln
Nickell, Medora Ruth . . . . .	A 3 . . . . .	Beatrice
Nickelson, Robert Vincent . . . . .	Mu . . . . .	Wisner
Niehaus, Frederick Wilhelm . . . . .	A 1 . . . . .	McClellan, Iowa
Nielsen, Kirstine . . . . .	Tu, (S, FA) . . . . .	Blair
Nigh, George Washington . . . . .	E 1 . . . . .	Bethany
Nightingale, Herbert Spencer . . . . .	L 3 . . . . .	Loup City
Nisley, Isaac Johnston . . . . .	L 3 . . . . .	Lexington
Noble, Eldon Alvin . . . . .	E 1 . . . . .	Lincoln
Noble, Harold Miller . . . . .	A 4, L 1 . . . . .	Lincoln
Noelting, William Henry . . . . .	E 3 . . . . .	Nebraska City
Nolan, Frances . . . . .	T 1 . . . . .	Alliance
Nombalais, Florence Amelia . . . . .	A 1, (FA) . . . . .	Lincoln
Norlin, Walter . . . . .	T, (S) . . . . .	Minden
Northrup, Louise . . . . .	T 1 . . . . .	Omaha
Northup, Hugh Ellsworth . . . . .	T, (S) . . . . .	Lincoln
Norval, Richard Sampson, Jr. . . . .	L 1 . . . . .	Seward
Noyes, Bessie . . . . .	A 4, (S) . . . . .	Lincoln
Nunemaker, Mildred Jane . . . . .	T, (S) . . . . .	Seward
Von Nusbaum, Erich . . . . .	G, (S) . . . . .	Eagle
Nye, Florence Elizabeth . . . . .	A 3, (FA) . . . . .	Pawnee City
Nyrop, Dora Gine . . . . .	T 2 . . . . .	Elgin
Oak, Emma Josephine . . . . .	T 3 . . . . .	Lincoln
Oberfelder, Arthur Milton . . . . .	A 4, L 1 . . . . .	Sidney
O'Brien, Minnie Josephine . . . . .	CA 2 . . . . .	Atkinson
O'Brien, Ruth . . . . .	A 1 . . . . .	Lincoln
Odell, Ruth . . . . .	A 1 . . . . .	Omaha
Oest, William Charles . . . . .	E 3 . . . . .	Lincoln
Ogden, Hattie Ruth . . . . .	T 4 . . . . .	Genoa

Ogden, Johanna Frances.	T 1	Genoa
O'Hanlon, Andrew Reed.	A 1	Blair
Ohlsen, Edith Violet.	CA 3	Oakland
Ohlsen, Flora Adaline.	T 1	Loup City
Ohlsen, William Henry.	E 4	Loup City
Okey, John Edgar.	L 2	Lincoln
Oline, Chester Oliver.	A 3	Lynch
Oliver, Jarrett.	E 2	Randolph
Olmstead, Lewis Bertie.	G	Lincoln
Olson, Harry Theodore.	Mu	Clarkfield, Minn.
Olson, Oscar Leonard.	L 1	York
O'Neill, Frank Bernard.	E 2	Jackson
Opie, Harold William.	A 1	Lincoln
Opp, John Edward.	T, (S)	Beaver Crossing
Orlofsky, Anna.	G, (S, FA)	Lincoln
Orlofsky, Sylvia.	A 2	Lincoln
O'Rourke, Edward.	E 3	McCook
Orr, Alice De Ette.	T, (S, Ex)	Omaha
Orr, Fred Loper.	A 3	Craig
Osborn, Barbara Christine.	T 1	Lincoln
Osborne, Florence Lois.	A 4	Missouri Valley, Iowa
Osborne, Harold Allen.	A 3	Geneva
O'Shea, Frances.	Au, (FA)	Lincoln
O'Shea, June.	Au	Lincoln
Osterhout, Fay.	A 3, (FA)	David City
Osterhout, Lyle Clair.	A 3	David City
O'Sullivan, John Jeremiah.	T, (S)	Hot Springs, Ark.
Outhouse, Emma Gerdes.	T 4	Loup City
Outhouse, Meroe Jaynes.	T 4	Loup City
Outhouse, Winifred Prather.	T 1, (SM)	Loup City
Overman, Carl Martin.	E 3	Lincoln
Overstreet, Milton Lowrey.	E 1	Lincoln
Owen, Hubert Keyes.	L 2, A 2	Omaha
Owen, Lewis Rees.	E 2	Lincoln
Packard, Alice Lydia.	A 2	Lincoln
Packard, George Byron, Jr.	M 1	Denver, Colo.
Paddock, May Grace.	A 2	Lincoln
Page, Lenora May.	T, (S)	Randolph
Pageis, Anna Charlotte.	T 3	Beatrice
Pageis, Florence Mabel.	T 1	Beatrice
Paine, Charles Kenneth.	E 2	Lincoln
Palmer, Ella May.	Tu	Fairmont
Palmer, Irwin Ross.	A 3	Fairfield
Park, Durward Belmont.	A 1	Randolph
Park, Young M.	A 2	Seoul, Korea
Parker, Lee Temple.	E 1	Wilsonville
Parks, Ann Elizabeth.	Au	Lincoln
Parmelee, Alfred Edwin.	A 2	Lincoln
Parrott, Stella Viola.	A 2	Albion
Parsons, Susanne Ring.	T 1	Lincoln
Patrick, Bert.	L 1	Lincoln
Patrick, Claude Bartlette.	CA 2	Lincoln
Patterson, Edward James.	A 4, L 3	Central City
Patterson, Harry.	A 1	Central City
Patterson, Marguerite Elizabeth.	T 3, (SM)	Rushville
Patton, Edna Emma.	A, (S)	Lincoln
Patton, Mildred Merle.	A, (S)	Lincoln
Paul, Harvey Earl.	M 1	Superior
Pauison, Maurice Ferdinand.	CA 4	Minden
Pearse, Henry Bennett.	E 3	Genoa
Pearson, Clara Helen.	T 3	Wilcox
Pearson, James Thomas Morley.	E 2	Schuylerville
Peek, Helene Dresser.	A 1, (FA)	St. Paul, Minn.
Peek, Jasper O'Neal.	A 1	Lincoln
Peery, Charles Benjamin.	A 2	Auburn
Peiffer, Emma.	T, (FA, S)	Madison
Peirce, Lewis Snow.	A 1, (SM)	Kearney
Peterson, Arne Khristopher.	A 4, (S)	Elk Horn, Iowa

Percy, Otto Warren	L 1	Crawford
Perrin, Edna	A 4	Lincoln
Perrin, Florence Elizabeth	A 2	Lincoln
Perrin, Hazel	A 2	Lincoln
Perrin, Otto K.	A 1	Sargent
Perry, Claibourne Gordon	E 2	Lincoln
Pestal, Gustave Adolph	A 4, M 1	Wahoo
Peters, Frances Lucretia	A 1	Lincoln
Petersen, Niels Frederick	G	Plainview
Peterson, Lee Russell	A 1	Lincoln
Peterson, Oscar Theodore	E 1	Beatrice
Peterson, Sigrid Matilda	T, (S)	Lexington
Pettis, Marian Hebard	T 1	Lincoln
Peyton, Wade Hampton	A 1	Lincoln
Pfeiffer, Laura Belle	G	Lincoln
Pfimmer, Wayne K.	L 1	Stratton
Phares, Ernest Henry	L 2	Red Cloud
Phares, Lewis Sheridan	E 1	Red Could
Phelps, Della Oda	T, (S, Ex)	Douglas
Phelps, Sarah Louise	G	Schuyler
Phifer, Irene Elizabeth	A 1	Lincoln
Phillips, Clark L.	M 3	Yutan
Phillips, Clifford Fuller	A 2	Beatrice
Phillips, Cyrus Grammer	A, (Ex)	Jacksonville, Fla.
Phillips, Madeleine Francis	T, (FA, S)	Superior
Phillips, Richard Alison	CA 3	Lincoln
Philipott, Charles Wescott	G	Lincoln
Philipott, Mayme Ethelyn	A 4	South Omaha
Pickel, Catherine Louise	T 4, (S)	Lincoln
Pickus, Joseph	E 2	Walthill
Pier, Harold Brockway	CA 1	Lincoln
Pierce, Alma	Au	Lincoln
Pierce, Clarence Arthur	T 4	Albion
Pierce, Orville Hugh	A 3	Lincoln
Pierce, Paul Harold	E 4, G	Lincoln
Pierce, Russell Kurtz	L 1	Fremont
Pike, James Edward	E 3	Stromsburg
Pillans, Edward Palmer	G	Lincoln
Pillsbury, Susan	G, (S)	Lincoln
Pipal, Belle Kadavy	A 1	Lincoln
Pipal, Francis John	G	Lincoln
Piper, Jennie Louise	G	Lincoln
Piper, Mildred Olive	T 2	Lyons
Plasters, Alma Grace	A 2	Stella
Plasters, Warren Howard	A 4	Stella
Plehn, Wallace Gehman	E 3	Scottsbluff
Plumb, Henry Hammond	E 3	Lincoln
Poland, Hazel Ione	Au, (SM)	Fairbury
Polk, Gilbert Cameron	E 3	Lincoln
Polk, John Lindsay	E 1	Lincoln
Pollard, William	E 1	Silver Creek
Pomerene, Joel DeWitt	L 1	Lincoln
Pomeroy, Alice Reynolds	T 4	Lincoln
Pont, Ervine Emery	A 2	Stanton
Pool, Albert	CA 4	Lincoln
Pool, Eva Eugenia	A 1	Ravenna
Pool, Raymond John	G	Lincoln
Pope, Blanche Emily	A 2, (FA)	Red Cloud
Pope, Elizabeth B.	A, (S)	University Place
Pope, Jessie Pearl	T 2	McCook
Pope, Mabel Maude	A 2	Red Cloud
Pope, Mildred Rebecca	A 2	Lincoln
Porter, Guy Livingston	E 2	Alma
Porter, Howard Willard	E 2	Grand Island
Porter, Ruth Zeola	T 1	Scribner
Poska, Rebecca Ruth	A 4, (S)	Lincoln
Potter, Besse	T, (S)	Crete
Potter, Herbert McPheeley	L 1	Seward

## ROSTER OF STUDENTS

447

Potts, Madge J.	M 1	Broken Bow
Pound, Olivia.	G.	Lincoln
Powell, Earl Loren.	L 1	Smithfield
Powell, Ward Hughes.	A 4, M 2, (S).	Overton
Power, John Franklin.	A 4, L 2	Ponca
Power, Walter Robert.	A 3	Ponca
Poynter, Charles William McCorkle.	G.	Lincoln
Pratt, George Peyton.	M 2	Lincoln
Pratt, Harlan Allen.	E 2	Lincoln
Pratt, Laura Josephine.	T 1	Lincoln
Prewitt, Elsie Pearl.	T, (Ex)	Seward
Prickett, Bernice Marie	A 4	Fairfield
Priest, John Maxfield.	L 1	Havelock
Prince, Harold Aubrey	A 2	Grand Island
Proud, George Curtis.	A 1	Holbrook
Proudfoot, Frank Sabin.	A 4, L 1	Lincoln
Ptacek, Anton Louis.	CA 1, (SAs).	David City
Ptacek, Eva Caroline	T 3	David City
Puffer, Grace Hammond	Au	Lincoln
Puffer, Lewis Morgan.	G	Lincoln
Pugh, Dale.	A 1	Lincoln
Purdy, Leonard.	E 1	Beatrice
Purinton, Ethel Jane.	A 3, (S).	Wilcox
Putcamp, Fanny Elizabeth.	A 2	Omaha
Putman, Girard Porter	L 1, (HS)	Lincoln
Putney, Lucy Boomer.	Au	Lincoln
Putney, Nelia Ada.	T, (S).	Lincoln
Pyle, Mae.	Au	Pawnee City
Quaal, Ralph William	E 4	Lincoln
Quiggle, Martha Rachel.	Au, (SM)	Lincoln
Quigley, Gertrude Eloise.	A 1	Valentine
Quinn, Jesse H.	A 2	Gothenburg
Quinn, Katharine Gertrude.	T, (S).	Jackson
Quinn, Mable.	T, (S).	Lincoln
Racely, George Andrew	E 1, A 1	Pender
Radcliffe, Clayton Samuel.	L 1	Sidney
Rader, Beulah Scott.	A, (Ex)	Peru
Radke, Franz Christopher	A 1	Wynott
Randall, Edna May.	A 3, (S)	Oberlin, Kans.
Randall, Ethel Elizabeth.	T, (S).	Oberlin, Kans.
Randall, Margaret Emily	A 4	Newman Grove
Randall, William Leslie.	L 1	Omaha
Randolph, Ruth.	A 2	Omaha
Rands, Julia Frances.	A, (S)	Lincoln
Rands, Robert Delafield.	CA 2	Lincoln
Rands, Sarah Jane.	A, (S).	Lincoln
Range, Amelia Katharine.	A, (S).	Lincoln
Range, Bertha Emma.	A 3	Lincoln
Range, Margaret Grace.	Au	Lincoln
Rankin, Rexford Charles.	L 2	Havelock
Ransom, Alice Fay.	Au, (SM)	Bancroft
Rasmussen, Lenard LeRoy	E 1	Brady
Ratcliff, John Anderson	CA 2	Lincoln
Ratcliff, Josiah French.	L 3	Stratton
Rathbone, Samuel Harvey, Jr.	A 4	Lincoln
Rau, Clyde Vivien.	A 1	Lincoln
Ravenscroft, Royal Morton.	L 1	Ainsworth
Ray, George Webster.	L 1	Bladin
Raymond, Alan Richard.	A 4, L 1	Fairmont
Raymond, Dorothy.	A 1, (SM).	Lincoln
Raymond, Hugh.	CA 1	Fairmont
Reavis, David Dorrington, Jr.	A 1	Falls City
Reavis, Ruth.	A 1, (SM)	Falls City
Reddish, Robert Owen.	L 3	Alliance
Reed, Albert Alison.	G	Lincoln
Reed, Guy Euclid.	A 4	Lincoln
Reed, Hattie Belle.	Au, (SM)	Milford
Reed, Isa Dolores.	A 4	Lincoln

## THE UNIVERSITY OF NEBRASKA

Reed, Merril Vergil.	T 1, (S, SM).	Lincoln
Reed, Richard McClain	CA 1	Havelock
Reeder, Catherine.	T 4	Hot Springs, S D.
Reeder, George Samuel.	E 1	Columbus
Reeder, Lucile Haywood.	CA 1	Columbus
Reese, Sidney Ober	A 2	Randolph
Reeves, William Marshall.	G.	Bethany
Reichenbach, Marie Hatfield	Au, (SM)	Lincoln
Reid, Erle Hamilton	L 3	Mitchell
Reid, Jessie Lillian.	A 1, (SM).	Mitchell
Reimer, William.	A 2, (S).	Bartley
Rein, Clifford Louis.	A 2	Loup City
Reinsch, Frank Herman.	G.	Lincoln
Reinsch, Letta Chappel.	A 1	Lincoln
Remington, Hugh Downing	E 1	Cambridge
Resler, John Clarence.	G	Lincoln
Rettenmayer, Charles Otto	A 1	Lincoln
Reynolds, Loran Marion.	E 1	David City
Reynolds, William Oscar Whitefield.	A 4	University Place
Rhea, Nella Mae.	A, (FA, S, SM)	Lexington
Rhodes, Leroy	E 1	Creighton
Rice, Fred William.	T, (S).	Davenport
Rice, Louise Bessey	T 1	South Omaha
Rice, Ray Everette	A 4	Lincoln
Rice, Robert Enos Benjamin.	A 3	Central City
Rich, Alvin Ralph.	E 2	West Point
Richard, Sister Mary	T, (S).	Lincoln
Richey, Justus Livingston	G, (S)	Plattsmouth
Richards, Grace.	T 4	South Bend
Richards, Ivy Ora	A 2	Sloan, Iowa
Richards, Lenore	T 1	Lincoln
Richards, Willamina Alice	T 4	Lincoln
Rife, Raleigh Schuyler.	G	Crete
Riley, Ivy.	CA 2	Wisner
Riley, Wilber Kirk	A 1	Wisner
Rinehart, Ruth.	A 2	Omaha
Ring, Penelope Patch.	T 4	Lincoln
Rippey, John Raymond	E 3	Lincoln
Risk, John E.	Eu.	Battle Creek
Ritchie, Mabel Anna.	A 1	North Bend
Rivett, Paul Sheldon	A 3	Lincoln
Roach, Bertha Alice.	A 3, (S)	Lincoln
Robb, Florence Ethel.	A 3	Tecumseh
Robbins, Mary Ethel.	A 2	Lincoln
Roberts, Bessie Mabel.	A 3	O'Neill
Roberts, Mary.	A 2	Alma
Roberts, Paul Henley	CA 1	Maxwell
Robertson, Edith Irene.	T, (S).	Lincoln
Robertson, Guy Allen.	E 4	Omaha
Robertson, Lorn Cleveland.	CA 2	Lincoln
Robey, Ora Gertrude.	Au, (SM)	Rising City
Robinson, Daisy Pearl.	T, (S).	Stanton
Robinson, Edward Temple.	CA 1	Waterloo
Robinson, Gale George.	E 1	Lincoln
Robinson, Lawrence Rosewell.	A 1	Waterloo
Robinson, Sylvester.	E 1	Lincoln
Rochek, Frank, Jr.	E 1	Chadron
Rooke, Joseph William.	E 2	Atkinson
Rockie, Will Allen	CA 1	Fremont
Rodman, Blanche Elizabeth.	Au	Blair
Rodman, Hettie	Tu	Blair
Rodman, James Albert.	L	Potter
Roebling, Mary Eliza.	T, (S, FA).	Lincoln
Roen, Paul Brandt.	A 3	Columbus
Rogers, Alfred Edward.	A 1	Lincoln
Rogers, Bessie Eleanor.	CA 1	Randolph
Rogers, David Miles.	A 3	Randolph
Rogers, Elmer Murray.	E 1	Tecumseh

## ROSTER OF STUDENTS

449

Rogers, Thomas Clinton	A 2	Ragan
Rogers, Virginia Noyes	A 4	Minden
Rogosch, Marie	A 1, (SM)	Ponca
Rhode, Carl George	A 1	Columbus
Rhode, Frank Edwin	E 4	Lincoln
Rohman, Carl Philip	L 3	Lincoln
Rohn, John Fred	L 2	Pierce
Rohrbough, Merrill Curtiss	A 1	Omaha
Rohwer, Carl	E 3, (FA)	Ft. Calhoun
Rohwer, Clara Catherine	A 1	Ft. Calhoun
Rokahr, Mary Ann	A 1	Lincoln
Rollings, Hattie Elizabeth	A 4, (S)	Lincoln
Rolofson, Pearl	T 1	Lincoln
Romans, Alice	A 1, (SM)	Omaha
Romans, Warren Bertie	L 1	Aberdeen, S. D.
Romer, Peter Kofor	A 2	Blair
Rood, Adelaide Clarissa	Au	Lincoln
Root, Alice Evelyn	T 2	Lincoln
Root, Elmer Alpha	E 3	Lincoln
Rosborough, John Mahard	T, (S)	Lincoln
Rose, Sister Mary	A, (S)	Spalding
Rose, Robert W.	T, (S)	Stockham
Roseberry, Jessie Olive	T, (S, FA)	Lincoln
Rosekrans, Irene	A 1, (FA, SM)	Denton
Rosenbaum, Eva	A 2, (SM)	Harvard
Rosenbaum, Harold Alvin	E 4	Harvard
Rosencreants, Fay Harry	A 1	Cozad
Ross, Clinton Thomas	A 1	Lincoln
Ross, William Lytle, Jr.	A 1	Omaha
Rosser, Harry Jay	L 1	Arapahoe
Rost, Clayton Ord	A 4	Page
Rowland, Hazel Ethelda	A 4	Holdrege
Rubendall, Ward Matter	A 3	Alliance
Ruby, Glen	E 2	Lincoln
Rudd, Leslie Reynolds	E 1	Ong
Rue, Walter Josiah	L 1	Graham, Mont.
Rugg, William Franklin	Au	Holdrege
Runge, Lulu Lillian	G.	Madison, Wis.
Rupert, Vera Mae	A 1	Broken Bow
Rupert, Walter James	CA 2	Lincoln
Rush, Florence Frances	A 3	Omaha
Rush, Harry Ernest	A 1	Rushville
Rush, Weaver Aldus	M 3	Malvern, Iowa
Russell, Agnes Cornelia	A 2	Omaha
Russell, Donnell Lauren	L 2	Lincoln
Russell, Harriet Jane	T 4	DeWitt
Russell, Richard Allen	L 1	Lincoln
Rutledge, Ida Luella	A, (S)	Lincoln
Ryan, Beth Symphrose	A 2	Lincoln
Ryan, Grae	CA 3	Neligh
Ryan, Sarah Agnes	T, (S)	Lincoln
Ryder, Frank Dell	A 1	Grand Island
Rymal, Tammie Francenna	A, (S)	Lincoln
Rymer, Harriet Missouri	T 3, (S)	Bethany
Sabin, Louise Emalyn	T, (S)	Beatrice
Sackett, Loy Earl	A 3	Beatrice
Safarik, Lumin Robert	A 1	Schuyler
Safford, Helen Martha	T 2	Lincoln
Sage, Earl Cuddington	A 1, (SM)	South Omaha
Salisbury, Grace Murray	A 2	Lincoln
Salmon, Mabel Colby	A 3	Omaha
Sams, Ralph M.	L 1	Indiana
Samuelson, Ellen	A 1	Shenandoah, Iowa
Sanborn, Verda Leota	CA 1, (SM)	Gretna
Sanders, Lena Leona	Au	Stockville
Sandy, Pink William	CA 1	Gretna
Sanford, Frances	Au, (SM)	Lincoln
Sanmann, Louie Frederick	A 1, (S)	Diller

Sargent, Mary Horne . . . . .	G	Lincoln
Satchell, Velma Orena . . . . .	T 2	Hildreth
Saunders, Thad E . . . . .	A 2	Beatrice
Savage, Howard Anthony . . . . .	A 1	Atwood, Kans.
Savage, Lottie Luella . . . . .	A 1	Atwood, Kans.
Sawyer, Helen Agatha . . . . .	A 2	Lincoln
Scarborough, Ray James . . . . .	G	University Place
Schank, Harry Edward . . . . .	E 2	Clarks
Schenck, Francis Joseph . . . . .	E 2	Fairbury
Schielbein, Ernest Simon . . . . .	L 1	Ithaca
Schinck, Dominic Charles . . . . .	E 2	Tilden
Schleuter, Raymond Theodore . . . . .	A 2	Lincoln
Schlichtemier, Omer Frederick . . . . .	CA 2	Nehawka
Schmale, Freda Louise . . . . .	T 2	Lincoln
Schmidt, August Carl . . . . .	L 2	Lincoln
Schmidt, Neida A . . . . .	T 4, (S, FA)	Lincoln
Schmocker, Fred C . . . . .	A 1	Columbus
Schock, George Edgar . . . . .	CA 2	Falls City
Schofield, Leah . . . . .	CA 1	Lincoln
Schofield, Mary Anne . . . . .	CA 3	Lincoln
Scholten, William . . . . .	M 1	Lincoln
Schooler, Adeline Catherine . . . . .	CA 1	Lincoln
Schroeder, Fred James . . . . .	A 1	Eustis
Schulte, Cornelius John . . . . .	CA 2, (S)	Lincoln
Schulte, Julia Catherine . . . . .	T 1	Elgin
Schulte, Mary Anna . . . . .	T 4	Lincoln
Schulte, Regina Bernardine . . . . .	T 4	Lincoln
Schultz, Carrie Kate . . . . .	G	Tobias
Schultz, Frieda Marie . . . . .	A 1	Tobias
Schultz, Gertrude Lonelda . . . . .	T 1	Lincoln
Schultz, John Carsten . . . . .	E 2	South Omaha
Schultz, Minnie Marie . . . . .	A 2	Louisville
Schwake, Ella Irene . . . . .	A 4	Nebraska City
Schwake, Florence . . . . .	T 2	Lincoln
Schwertley, Salome Mary . . . . .	A 2	Omaha
Scott, Aurelia Marion . . . . .	CA 2	Lincoln
Scott, Ethel Augusta . . . . .	A 4	Kearney
Scott, Frank Clarke . . . . .	L 1	Custer
Scott, Melvin Roscoe . . . . .	L 1	Shelby
Scott, Nannie Letitia . . . . .	T, (S, FA)	Plainview
Scott, Nellie May . . . . .	T, (S, SM)	Goodland, Kans.
Scott, Robert Douglas . . . . .	G	Lincoln
Scott, Uarda Mildred . . . . .	A 1	Omaha
Scott, Warren Robert . . . . .	E 1	Lincoln
Scott, William J . . . . .	L 2	Herington, Kans.
Scoville, Mildred Clare . . . . .	T 1	Hartington
Scoville, Myrtle Mae . . . . .	T 4	Hartington
Scribner, Gertrude . . . . .	A 1	Lincoln
Scriven, Dee Matthias . . . . .	A, (S)	St. Edward
Scriver, Clare . . . . .	A 2	Omaha
Sears, William Carroll . . . . .	CA 2	Omaha
Seaton, Laurence Froyd . . . . .	E 4	Bancroft
Sedgwick, Myrna Pauline . . . . .	A, (S)	Lincoln
Seemann, George McHenry . . . . .	A 2	Denison, Iowa
Seidel, Caroline Pauline . . . . .	G, (S)	Lincoln
Seidel, Herman L . . . . .	L 2	Stanton
Seitz, Hazel M . . . . .	Tu, (FA, SM)	Lincoln
Seitz, Myrtle Grace . . . . .	M, (S)	Lincoln
Selleck, John Kent . . . . .	E 3	Lincoln
Selleck, Marjorie Corella . . . . .	A 3	Lincoln
Sellon, George Irving . . . . .	M 3	Stanley, Wyo.
Selzer, Arthur Louis . . . . .	E 4	Nebraska City
Severin, Richard Otto . . . . .	T 3, (S)	Lincoln
Sewell, Pearl Elmira . . . . .	T, (S, FA, SM)	Wayne
Seymour, Elizabeth Putman . . . . .	T 2	Lincoln
Shaffer, Elizabeth Mary . . . . .	T, (S)	David City
Shank, Bertha . . . . .	T, 3 (S)	Odell
Shank, Edith Rose . . . . .	T 2	Superior

## ROSTER OF STUDENTS

451

Sharpless, Emma Idalene	CA 2	Ansley
Shaw, Arletta Jane	Au, (FA)	Lincoln
Shaw, Harry	E 2	Adams
Shaw, Mabel Aleta	T, (S, SM)	Plainview
Shedd, Helen Bernice	Au, (FA)	Ashland
Sheldon, George Clinton	CA 1	Lincoln
Sheldon, Philip Lyle	Au	Lincoln
Shepherd, Edith Grace	T, (S)	Lincoln
Shepherd, William	A 1	Rulo
Sherraden, Jasmine	A 1	Omaha
Sherwood, Clement Miner	L 2	Red Cloud
Shike, Jasper Ray	A 4	Lincoln
Shirey, Raymond Clarence	A 1, (2P1)	Wilber
Shively, Carl	A 4	Nelson
Shoemaker, Frank Henry	Au	Lincoln
Shonka, Rose Amelia	Au	Richland
Shonka, Sylvester Vaclar	L 3	Abie
Short, Edward Marion	T, (S)	Franklin
Short, Mamie Frances	G, (S)	Lincoln
Show, John Harry	G.	South Omaha
Showalter, John Malcolm	T 4	University Place
Shrum, Lillian Edith	T 2	Omaha
Shue, Harriet Hazel	T 1	Beaver City
Shugart, Nettie Wills	G	Lincoln
Shumway, Floy Gertrude	T 1, (SM)	Scottsbluff
Shumway, Myrtle Anna	T 1	Scottsbluff
Shurtliff, Roswell Johnson	L 1	Trenton
Simmons, Wilbur Henry	T, (S)	Lincoln
Simpkins, Gladys Edna	A 1	Fairbury
Simpson, Otis	T 1	Wahoo
Sims, Boyd Raphael	E 1	West Point
Sims, Violet Ellen	Au, (SM)	Aurora
Sinamark, Andrew	A, (S)	Fremont
Sinkie, Otto August	A 2	Lincoln
Sinkule, Zdenka Lottie	A 1, (SM)	South Omaha
Sisler, Rebanis	A 1	Geneva
Sjogren, Oscar Warner	CaU	Lincoln
Skinner, Lewellyn Terry	CA 2	David City
Skinner, Rozeltha Lenore	A 1, (SM)	Aurora
Skochdopole, George W	A 2	Ravenna
Slade, Bartlett Paine	L 1	Lincoln
Slade, Clara Mansfield	A 1, (SM)	Lincoln
Slater, Harold Charles	E 3, (SM)	Lincoln
Sloan, Ethel	CA 2	Geneva
Smart, Marie Josephine	T 3	McCook
Smith, Alvin	E 1	Lyons
Smith, Anna Caroline	A 4, (S)	Ceresco
Smith, Arthur Andrew	M 3	Omaha
Smith, Arthur Lawrence	A 2, M 2, (S)	Dunlap, Iowa
Smith, Carlos Oliver	E 4	University Place
Smith, Charles Richard	A 1	Tilden
Smith, Cora Evelyn	T, (S)	Lincoln
Smith, Don French	E, (S)	Schenectady, N. Y.
Smith, Estel Auta	CA 1	Blue Springs
Smith, Franklin Perry	L 2	Fremont
Smith, George Walter	E 1	Wilber
Smith, Grace	A 1	Minden
Smith, Harry Fisher	E 2	Lexington
Smith, Hugh Ellison	E 2	North Platte
Smith, Katherine	T, (S)	Lincoln
Smith, Lois	A 1	Macedonia, Iowa
Smith, Lora Grace	Au, (SM)	Republican City
Smith, Lora Viola	A 3	Lincoln
Smith, Mearl Curtis	T 3, (S)	Belgrade
Smith, Meredith	T, (Ex)	Omaha
Smith, Ralph Emerson	E 2	Lexington
Smith, Raymond Albert	A 1	Lincoln
Smith, Rilla Coburn	T, (S)	Talmage

## THE UNIVERSITY OF NEBRASKA

Smith, Sylvia Lee	T 2	Syracuse
Smith, Victor Bunnell	A 4	Fremont
Smith, Villiers Deaver	A 2	Beaver City
Smoyer, Grace P.	Au	Havelock
Smoyer, Albert Michael	A 1	Milligan
Snapp, Cecile Maud	T 4	Lincoln
Snell, Hazel Frost	A 4, (SM)	Lincoln
Snyder, Erwin Paul	A 2	Lincoln
Sohl, Andrew Henry Anton	Eu	Cedar Bluffs
Soltow, Lawrence Milton	E 1	Lincoln
Somers, Frederick Augustus	E 3	Bethany
Somerville, Clarence Monroe	L 2	McCook
Somerville, William Marvin	L 1	McCook
Sommer, Helen Lillian	A 4	Omaha
Sorenson, Helen Brown	A 1	Omaha
Soukup, Frank Z.	CA 1	Fremont
Sowell, James William	G	Omaha
Spacht, John Roy	E 3	Alliance
Spalding, Mary Louisa	Au, (SM)	Lincoln
Sparks, Elizabeth Kimball	Au	Lincoln
Spaulding, Earle Rowe	A 3	Gothenburg
Spaulding, James Benedict	T 3, (FA)	Lincoln
Spaulding, Thankful Elizabeth	T 4	Lincoln
Spear, Fred Lawrence	L 1	Genoa
Spears, Margaret Edna	T, (S)	Lincoln
Spelts, Alma Ionia	A 3	Lincoln
Spindler, Elbertha May	T, (S)	O'Neill
Sprague, Annie Maxon	T 4	Lincoln
Sprague, Cedric Bingham	E 1	Lincoln
Sprague, Erma	A 3, T 3	Lincoln
Sprague, Harold William	E 2	Lincoln
Sprague, Thomas Baxter	L 1	Lincoln
Springer, Helen Luree	T 1	Lincoln
Sprung, Annetta Mabel	G	Lincoln
Squires, David Henry	CA 4	Ord
Squires, Ruth Madeline	A 1	Ord
Srb, Jerome Valentine	A 2	Dodge
Stalder, Minnie Agusta	Au, (SM)	Salem
Stancliff, Everett L.	Au	University Place
Stanley, Lamar Rush	T 2	Aurora
Stanton, Hazel Martha	T 3, (SM)	Stromsburg
Starr, Hazel Esther	A 4	Lincoln
Starrett, Miriam	Au	Lincoln
Starrett, Samuel Bloomhuff, Jr.	A 3	Central City
Stasenka, Charles Robert	L 3	Wilber
Stastny, Olga Frances	M 2	Wilber
Stauffer, Carroll Orville	A 3	Oakland
Steck, Katherine Helen	T, (S)	Milligan
Steckelberg, Minnie Catherine	A 1, (S, SM)	Plymouth
Steele, Robert Edwin	CA 1	Falls City
Steenburg, Donald Benjamin	A 4, M 2, (S)	Aurora
Steiner, Helen Margarette	A 2	Lincoln
Steinhart, Morton	L 1	Nebraska City
Stelk, William Detlef	CA 1	Grand Island
Stenger, Cecilia Caroline	T 2	Columbus
Stenger, Mathilde	A 1, (FA)	Columbus
Stepanek, Orin G.	A 2	Crete
Stephenson, Florence Martha	T, (S)	Lincoln
Stephenson, Myrtle Mae	T, (S)	Bertrand
Sterba, Vlasta Louise	T 1	South Omaha
Stetler, Carrie May	G	Lincoln
Stevens, Harland Uriah	G	College View
Stevens, Inez Leona Holland	G	College View
Stevens, Robert Waterman	Au	Lincoln
Stevenson, Marguerite Blanchard	T 3	Mitchell
Stewart, Anna	Au, (SM)	Axtell
Stewart, Bernice Oneta	A 1	Omaha
Stewart, Branson Washburn	L 3	Lincoln

**ROSTER OF STUDENTS**

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Stewart, Donald Warner.	A 2	Lincoln
Stewart, Elvessa A.	T 3, (SM)	Fremont
Stewart, Grace Darling.	Au	Seward
Stewart, Marguerite Theresa	T 3	Blair
Stibal, John, Jr.	E 3	Richland
Stilson, Earl B.	E 1	Atkinson
Stilwell, James Lee	E 1	Valentine
Stivers, Madeleine Gladys	A 1	Lincoln
Stockier, Thomas Richard Parson	L 3	Lincoln
Stocking, Delia Verne	A 2, (SM)	Omaha
Stombaugh, Edith.	T 2, (HS).	Lincoln
Stone, Audra.	Au, (SM)	Lincoln
Stoner, Samuel Cheslie.	L 3	Osceola
Storey, Vernon Madelaine	A 2	Red Cloud
Stout, Mecia.	T 4	Lincoln
Stout, Richard Forbes.	L 1	Lincoln
Strahl, Frank John	E 2	Lincoln
Strain, Thurl Britt.	L 1	Creighton
Strejc, Bessie Mary	Au	Table Rock
Strickler, Blanche Martin.	Au	Lincoln
Stroemer, Marie Katherine.	T 1	Alvo
Strom, Russell Rex.	A 4, (S).	College View
Struve, Martin Louie.	E 4	Blair
Stryker, Franklin Hird.	A 1	South Omaha
Stuart, Gerald Walsh.	A 3	Lexington
Stuart, Wilfred Victor.	A 3	Lexington
Stuff, Freda Naomi.	T 1, (FA).	Lincoln
Sturdevant, Charles Francis.	E, (S)	Weston
Sturdevant, Lazelle Brantly.	G	Lincoln
Sturdevant, Olivia Zoe.	A 1	Atkinson
Sturdevant, Ralph Smith.	Mu	Weston
Sturm, Gertrude.	A 1	Nehawka
Sturm, Victor Andrew.	A 1	Nehawka
Sturmer, Fred Charles.	E 4, (S)	Lincoln
Sullivan, Alma Leona.	A 2	Broken Bow
Sullivan, Erma.	A 2	Broken Bow
Sullivan, John Joseph.	Mu	Jackson
Sullivan, Josie.	Au.	University Place
Sullivan, Mabel Gertrude.	A 2	Lincoln
Sullivan, Mary.	G	Omaha
Sullivan, Theodore J.	E 1	Central City
Sutter, Howard Fraizer.	E 4	Liberty
Swan, Edward Claire.	A 1	Sioux City, Iowa
Swan, Harriet Elinor.	T, (S).	Missouri Valley, Iowa
Swan, Jesse Randolph.	Lu.	Lincoln
Swan, John Theodore.	A 2	Western
Swanson, Myrl Raymond.	A 2	Aurora
Swanson, Oliver Milton.	E 2	St. Edward
Swanson, Swan Arthur.	E 2	Holdrege
Sward, Erick Martin Paulus.	M 4.	Oakland
Swartzlander, Fredericka.	A 1	Omaha
Swearingen, Thomas.	L 2	Roca
Sweeley, Ralph Chapman.	A 2	Omaha
Sweeney, Roger.	E 1	Lincoln
Swenk, Iva Beatrice.	A 1	Lincoln
Swenk, Myron Harmon.	G	Lincoln
Swenson, Joseph Magnus.	L 2.	Sidney
Swenson, Martina Caroline.	T 2	Oakland
Swenson, Ott Frederick.	CA 4	Holdrege
Swezey, Emma Josephine.	G	Lincoln
Swezey, Marien Frances.	A 2	Lincoln
Swingle, Charles Wesley.	L 1	Lincoln
Switzler, Robinson Merideth.	L 2	Omaha
Syford, Constance Miriam.	G	Lincoln
Syford, Lester Corwin.	G	Lincoln
Taft, Harold E.	E 1	Norfolk
Tate, John Torrence.	G	Lincoln
Taylor, Earl John.	A 2	Lincoln
Taylor, Herbert Solomon.	CA 2	Denver, Colo.

## THE UNIVERSITY OF NEBRASKA

Taylor, Jesse Day . . . . .	M 3 . . . . .	University Place
Taylor, Jettie Arnold . . . . .	A 4 . . . . .	Denver, Colo.
Taylor, Willis Harvey . . . . .	M 4 . . . . .	Villisca, Iowa
Taylor, Zella Francis . . . . .	A 2 . . . . .	Red Cloud
Teel, Roy Clifford . . . . .	E 2 . . . . .	Red Cloud
Teeter, Hazel Ferne . . . . .	A 3, (FA) . . . . .	North Bend
Temple, LeRoy Bates . . . . .	L 2 . . . . .	Lexington
Tewell, James Leonard . . . . .	A 3, L 1 . . . . .	Holdrege
Tewksbury, Edith Frances . . . . .	T 2 . . . . .	Lincoln
Tewksbury, Marie Cecil . . . . .	T 1 . . . . .	Lincoln
Therkelsen, Carrie Chmelka . . . . .	Tu, (S) . . . . .	Lincoln
Thomas, Clay Henry . . . . .	A 1 . . . . .	Omaha
Thomas, George Joseph . . . . .	A 4 . . . . .	University Place
Thomas, Gladys Elizabeth . . . . .	A 3 . . . . .	Lincoln
Thomas, Helen Beck . . . . .	CA 1 . . . . .	Tekamah
Thomas, Inez Mary . . . . .	Au, (SM) . . . . .	Lyons
Thomas, James Lloyd . . . . .	T, (S) . . . . .	Lincoln
Thomas, Mamie Ann . . . . .	Au . . . . .	Columbus
Thomas, Nova Elizabeth . . . . .	A 4, (SM) . . . . .	Nelson
Thomas, Rachael Merle . . . . .	T 3 . . . . .	Lincoln
Thomas, Walter Harris . . . . .	Mu . . . . .	Lincoln
Thompson, Albert Milton . . . . .	L 3 . . . . .	Lyle, Minn.
Thompson, Benjamin Harrison . . . . .	E 3 . . . . .	Overton
Thompson, Bessie Margaret . . . . .	T, (S) . . . . .	College Springs, Iowa
Thompson, Faye . . . . .	CAu . . . . .	University Place
Thompson, Harry Landis . . . . .	A 3, (4 yr. Pharmacy) . . . . .	West Point
Thompson, Hazel . . . . .	T 1 . . . . .	York
Thompson, James Franklin . . . . .	T 1 . . . . .	Lincoln
Thompson, Joseph Wood . . . . .	A 1 . . . . .	Denver, Colo.
Thompson, Lois Margaret . . . . .	A 3 . . . . .	Lincoln
Thompson, Lucien Orrin . . . . .	CA 2 . . . . .	Omaha
Thompson, Margaret Louise . . . . .	T 3 . . . . .	McCook
Thompson, Richard Yoder . . . . .	A 1 . . . . .	West Point
Thompson, Robert George . . . . .	A 1 . . . . .	Omaha
Thompson, Susanna . . . . .	CA 2 . . . . .	Lincoln
Thompson, Thomas Grier . . . . .	L 1 . . . . .	Big Spring
Thompson, Warren Simpson . . . . .	G . . . . .	University Place
Thompson, Will Edward Schenck . . . . .	L 1 . . . . .	Omaha
Thornburg, Bertha Wilhelmina . . . . .	T 3 . . . . .	Lincoln
Thornburg, Hazel Syrena . . . . .	T 3 . . . . .	Lincoln
Thorndike, Harry Wilber . . . . .	A 1 . . . . .	Cambridge
Thurston, Willett Minor . . . . .	CA 1 . . . . .	Lincoln
Tibbets, Albert Burr . . . . .	CA 2 . . . . .	Hastings
Tibbets, Mary Ruth . . . . .	T 3 . . . . .	Hastings
Tidball, Harriet Pier . . . . .	Au . . . . .	Crete
Tidd, Charles William . . . . .	E 1 . . . . .	Palmer
Tinkham, Florence Eva . . . . .	T 4 . . . . .	Lincoln
Tipton, Frank Benjamin, Jr . . . . .	A 2 . . . . .	Seward
Tobiska, Joseph William, Jr . . . . .	A 2 . . . . .	Wilber
Todd, Bessie Walton . . . . .	A 3 . . . . .	Merryville, Mo.
Todd, Florence Sheldon . . . . .	A 4 . . . . .	Nehawka
Tollefson, Albert Bush . . . . .	L 3 . . . . .	Kearney
Tomek, Fred Benjamin . . . . .	M, (S) . . . . .	Lynch
Toney, Perry Sylvester . . . . .	E 2 . . . . .	Omaha
Topping, Paul Swayne . . . . .	L 3 . . . . .	Nebraska City
Torell, Gerhard John . . . . .	A 1 . . . . .	Lincoln
Tourtelot, Charles Victor . . . . .	Au . . . . .	Lincoln
Towle, Maxwell Getty . . . . .	L 1 . . . . .	Lincoln
Towne, Harriet Estelle . . . . .	G . . . . .	Lincoln
Townsend, Harvey Gates . . . . .	T, (S) . . . . .	University Place
Townsend, Lewis Alonzo . . . . .	CA 1 . . . . .	Central City
Traub, William Charles . . . . .	L 1 . . . . .	Gordon
Treat, Anna May . . . . .	Au . . . . .	Lincoln
Trimble, Chandler . . . . .	A 1 . . . . .	Lincoln
Troup, Wallace Burns . . . . .	A 1 . . . . .	Omaha
Troxel, Christabel . . . . .	T, (FA, S, Ex) . . . . .	Lincoln
Truman, Temple Vergil . . . . .	T, (S) . . . . .	Brownville
Trumbull, Fred Robert . . . . .	CA 1 . . . . .	Minden
Trump, Earle D . . . . .	L 3 . . . . .	Blue Springs

## ROSTER OF STUDENTS

455

Tucker, James C.	M 3	Tabor, Iowa
Tucker, Mary Winifred	M 4	Lincoln
Tunison, Fay	A 2, (Ex)	Aurora
Tunks, Glen Vern	E 2	Central City
Turner, Julia Hazel	CA 1	Cambridge
Turner, Lida Kennedy	Tu	Columbus
Turner, Nancy Mildred	T 1	Hot Springs, S. D.
Turpie, Eugene Frank	E 3	North Platte
Tyler, Ida Gertrude	A 2, (SM)	Auburn
Tyler, V. E.	Au, (Ex)	Syracuse
Tyson, Isabel	A 2	Homer
Underwood, Clinton Brooks	A 3	St. Paul
Unruh, Cara Teneda	T 1	Blair
Vail, Ada Arvilla	A 2, (SM)	Albion
Vail, Nellie Antoinette	G	Lincoln
Valgren, Margaret St. Clair	Tu	Lincoln
Van Camp, Mary	T, (S)	Lincoln
Vance, Robert Buchanan	E 2	Crete
VanCleave, Frank Elworth	Lu	Hendley
VanCleave, Ora Judson	Lu	Wilsonville
Vandell, Mabel Edith	A 1, (FA)	Holdrege
Vandell, Verne Perry	E 1	Holdrege
VanDusen, Dana Burgess	A 3	South Omaha
VanDusen, Harold Arnold	A 4	South Omaha
VanHousen, Warren David	E 1	Stanton
Vasey, Harvey Elmer	CA 2	Liberty
Vasey, Walter Artemus	L 2	Beatrice
Vaughan, Henry	E 1	Kearney
Veghte, Gladys Adaline	A 2	Raymond
Veith, Anna Margaret	A 2	Lincoln
Veronica, Sister	T, (S)	Spalding
Versaw, Paul Edward	E 1	Franklin
Vibbard, Hazel Louise	Au	Lincoln
Vieth, Zora	T, (S, FA)	Oakland, Iowa
Vineyard, Julia Marie	Au, (S)	Lincoln
Vlasnik, George Lafayette	E 3	Niobrara
Voderberg, Helmuth Henry Max	E 4	Lincoln
Vohland, Michael Lewis	T 2	Gibbon
Vollbeh, Henrietta A.	A, (S)	Liberty
Vollintine, James Louis	E 4	Lincoln
Vosacek, Frank Richard	G, (S)	South Omaha
Votava, Joseph Thomas	A 4, L 3, (S)	Edholm
Vrana, Edward	Eu	Omaha
Wachter, Don Alfred	A 1	Lincoln
Wade, Ernest Henry	E 2	Blue Springs
Wade, Mary	A 1	Sioux City, Ia.
Wade, Merle Elwood	A 1	Lincoln
Wagey, Pearl Alice	T, (S)	Cambridge
Waite, Esther Jeanette	T 2	Burwell
Waite, Florence Marguerite	T 1	Burwell
Wake, Harold Robert	E 3	Geona
Wake, Thomas Leslie	E 1	Genoa
Walburga, Sister Mary	T, (S)	Jackson
Walcott, Oliver Marion	L 3	Valentine
Walford, Roy Herbert	L 1	Bayard
Walker, Edson Ozro	E 1	Cedar Bluffs
Walker, Glen Alan	E 1	Cedar Bluffs
Walker, Glen Fay	M 1	Red Cloud
Walker, Grace Isabelle	A 3	Douglas
Walker, Louisa Viola	T 2	Cedar Bluffs
Walker, Lowell Lampert	L 1	Cedar Bluffs
Wallace, Harold Foster	E 4	University Place
Wallace, Helen Margaret	A 2, (SM)	Lincoln
Wallace, Orville	A 1	Tekamah
Walsh, Hazel Ruby	T, (S, FA)	Lincoln
Walsh, Paul	Au	Lincoln
Walsh, Stasia	T, (S.)	Missouri Valley, Iowa
Walter, Lloyd DeWitt	E 3	Oxford
Walter, Otto Fasolt	A 3	Columbus

Walters, Edna . . . . .	C Au . . . . .	Oxford
Walton, Charles Newton . . . . .	G, (Ex.) . . . . .	Wahoo
Ward, Archibald Walter . . . . .	M 4 . . . . .	Stockville
Ward, Charles Roy . . . . .	Au . . . . .	Lincoln
Ward, Nellie Marguerite . . . . .	A 2, (4 yr. Pharmacy) . . . . .	Lincoln
Warner, Donald Herbert . . . . .	CA 1 . . . . .	Lincoln
Warner, Ester . . . . .	T 3, (SM) . . . . .	Lincoln
Warner, Kenneth Fisher . . . . .	A 3 . . . . .	Lincoln
Warner, Leon George . . . . .	A 1 . . . . .	Beaver City
Warner, Ruth Ashley . . . . .	M 1 . . . . .	Lewellen
Warren, Allen Elijah . . . . .	L 3 . . . . .	Superior
Warton, Alfa Frances . . . . .	T 4 . . . . .	Superior
Warton, Harry Orville . . . . .	L 1 . . . . .	Superior
Washburn, Orrilla Fidelia . . . . .	T 4 . . . . .	Lakeside
Wasson, Minor Fleming . . . . .	L 2 . . . . .	Sidney
Waters, James Alton . . . . .	E 2 . . . . .	Lincoln
Waters, Nancy Melvina . . . . .	T 1, (S) . . . . .	Lincoln
Watkins, Clyde Edward . . . . .	A 1 . . . . .	Lincoln
Watkins, Dorothy Dale . . . . .	A 2 . . . . .	Lincoln
Watson, John Cicero, Jr . . . . .	A 3 . . . . .	Nebraska City
Watson, Lucius Howard . . . . .	Au, (SM) . . . . .	Lincoln
Watson, Wesley LeRoy . . . . .	T, (S) . . . . .	Bethany
Watters, Farnham Elliott . . . . .	A 4, L 3 . . . . .	Bloomfield
Weaver, Georgia Violet . . . . .	T 1, (SM) . . . . .	Mead
Weaver, John Ernst . . . . .	G . . . . .	Lincoln
Weaver, Lester Horace . . . . .	E 1 . . . . .	Norfolk
Weaver, Louis William, Jr. . . . . .	E 2 . . . . .	Columbus
Weaverling, Ralph Eugene . . . . .	L 3 . . . . .	Beatrice
Weber, Clarence Raymond . . . . .	CA 1 . . . . .	Tecumseh
Webster, Charles Ernest . . . . .	E 2 . . . . .	Dixon
Webster, Richard Orin . . . . .	G . . . . .	Lincoln
Weedman, Walter Franklin . . . . .	M 2, A 4 . . . . .	Ottawa, Kans.
Weeks, Nettie Loveland . . . . .	T 1 . . . . .	Lincoln
Weil, Babette . . . . .	A 1 . . . . .	Lincoln
Weil, Gladuce . . . . .	T 1 . . . . .	Lincoln
Weiss, Walter Clatus . . . . .	A 4, L 1 . . . . .	Hebron
Welch, Leslie Andrew . . . . .	A 3 . . . . .	Wayne
Wells, Clifford Webb . . . . .	M 1 . . . . .	Des Moines, Iowa
Wells, Stiles Sherman . . . . .	E 1 . . . . .	College View
Wendland, Henry William . . . . .	G, (S) . . . . .	Clay Center
Wenstrand, William Wallace . . . . .	L 1 . . . . .	Wahoo
Werner, Hugh Burdette . . . . .	A 3 . . . . .	Hebron
Wertman, Mary Catharine . . . . .	Tu, (SM) . . . . .	Milford
Weseen, Maurice Harley . . . . .	A 2 . . . . .	Oakland
Wessel, Henry . . . . .	A 2 . . . . .	Lincoln
Westerfeld, Samuel Zaza Childs . . . . .	E 4 . . . . .	Lincoln
Westerfelt, Alfred Edward . . . . .	M 2 . . . . .	Omaha
Weston, Elizabeth Longfellow . . . . .	CA 1 . . . . .	Beatrice
Weston, Helen . . . . .	A 4 . . . . .	Beatrice
Westveer, Helen Elizabeth . . . . .	A 1, (SM) . . . . .	Schuylerville
Wetting, Louis Eugene, Jr. . . . . .	T, (S) . . . . .	Lincoln
Whaley, Fannie Alice . . . . .	CA 3, A 3 . . . . .	Lincoln
Wheeler, Hiland Hill, Jr . . . . .	E 2 . . . . .	Lincoln
Wheelock, Ruth Ada . . . . .	CA 1 . . . . .	Beatrice
Whelpley, Helen Lorene . . . . .	T 1 . . . . .	Fremont
Wherry, Bernice Lucille . . . . .	A 1 . . . . .	Pawnee City
Wherry, James Arthur . . . . .	A 1, (SM) . . . . .	Pawnee City
Wherry, Kenneth Spicer . . . . .	A 1 . . . . .	Pawnee City
Whistler, J. Harley . . . . .	A 1 . . . . .	Lincoln
Whitcomb, Glenn D . . . . .	A 1 . . . . .	York
White, Carol Clarke . . . . .	Tu, (FA) . . . . .	University Place
White, Corinne Corliss . . . . .	A 3, (SM) . . . . .	Ashland
White, David George . . . . .	CA 4 . . . . .	Plattsmouth
White, Earl William . . . . .	E 3 . . . . .	Lincoln
White, Harry Lee . . . . .	E 4 . . . . .	Omaha
White, Shelly Perry . . . . .	A 1 . . . . .	Omaha
Whitehorn, Homer Austin . . . . .	G . . . . .	University Place
Whitmore, Marion Ely . . . . .	A 4 . . . . .	Valley
Whitmore, Nell Pinkham . . . . .	A 4 . . . . .	Valley

## ROSTER OF STUDENTS

457

Whitney, Lloyd Edmund.	L 3.	Lincoln
Whitney, Ross Augustus.	E 1.	Springfield
Whittier, Florence Amelia.	A 4.	Whiting, Iowa
Whymann, Edith May.	G.	Lincoln
Wickland, Arthur Julius.	A 3, (S, Ex, SM).	Lincoln
Wickland, Lillian Norene.	Au.	Lincoln
Wicks, Lorenzo Clisby.	E 2, (S).	Springfield, S. D.
Widener, Will Oscar.	A 1.	Lincoln
Wiebe, Herman Harry.	A 2.	Beatrice
Wiese, Bertha Margaretha.	T 1, (SM).	South Omaha
Wiese, Meta.	A 2.	Lincoln
Wilburn, John Clifton.	E 1.	Hendley
Wilcox, Clara Emerson.	A 1.	Lincoln
Wilcox, Clifford Franklin.	A 1.	Lincoln
Wilcox, Edith Olivia.	A 1.	Kearney
Wilcox, Floyd E.	CA 1.	Kearney
Wilcox, Gertrude Alice.	T 3, (S, SM, FA).	Lodgepole
Wilcox, Marion Rebecca.	T 1, (S).	Lincoln
Wildish, Reginald Myron.	M 4.	Aurora
Wiles, Frank Storey.	E 4.	Syracuse
Wilhelmsen, Emma.	G.	St. Paul
Willcockson, John Robert.	A 1.	Lincoln
Williams, Bert Edward.	Lu.	Imperial
Williams, Blanche Grace.	A 2.	Neola, Iowa
Williams, Cyrus Vance.	G.	University Place
Williams, Delbert.	CA 1.	College View
Williams, Edith Blanche.	A 1.	Lincoln
Williams, Guy Morris.	E 4.	Lincoln
Williams, Hattie Plum.	G.	Lincoln
Williams, Hazel Vera.	T 2.	Ponea
Williams, Helen.	T, (S).	Lincoln
Williams, James Benjamin.	A 2, (S).	Wood River
Williams, Lena May.	T 4.	Crawford
Williams, Mildred Carnahan.	M 1.	York
Williams, Roger.	A 2.	Gothenburg
Williamson, Gretchen Parr.	A 1.	Omaha
Willis, Kathryn.	T 4.	Dalton
Willman, Alma.	T, (S, FA).	Sprague
Willsey, Franklin Reynolds.	CA 2.	Blair
Wilsey, Rex Bishop.	E 2.	Tecumseh
Wilson, Alva.	CAu.	Bethany
Wilson, Anne Mildred.	A 2.	Lincoln
Wilson, Bert.	G, (S).	Bethany
Wilson, Bertha Florence.	T, (S).	Douglas
Wilson, Byrel Nevil.	E 3.	Lincoln
Wilson, Clara Owlesley.	A 3.	Lincoln
Wilson, Dena Arabelle.	CA 1.	University Place
Wilson, Ella Mary.	A 3.	Kearney
Wilson, Ernest Dana.	A 2.	Lincoln
Wilson, Ervin Fillmore.	A 4.	Columbus
Wilson, Florence Sue.	A 4, (S, FA).	Lincoln
Wilson, Franklin Rebecca.	T, (S).	Independence, Kans.
Wilson, George Balch.	E 2.	Rushville
Wilson, Henry Lloyd.	L 3.	Crawford
Wilson, Henry True.	E 1.	Lincoln
Wilson, Hugh Carter.	E 1.	Lincoln
Wilson, Ima Mabel.	A 2.	Lincoln
Wilson, Lillian May.	Au.	Lincoln
Wilson, Lucie Mildred.	A 1.	Lincoln
Wilson, Lucile DeNevers.	A 2.	Lincoln
Wilson, Mabel Agnes.	T, (S).	Douglas
Wilson, Mary Agnes.	A 1.	University Place
Wilson, Maud Matthes.	CA 2, (S).	Lincoln
Wilson, Ninon.	T, (S).	Lincoln
Wilson, Ralph Parks.	A 4, L 1, (S).	Lincoln
Wilson, Sherman Ray.	A, (S).	Lincoln
Wilson, Walter Feasel.	A 1.	Lincoln
Windham, Kathryn Lamira.	T 4.	Plattsmouth
Wirsig, Otto Allen.	T 1.	Taylor

Wirt, Frederick Alfred.	E 3	Cook
Wise, Cora Elizabeth.	G, (S)	Lead, S. D.
Wismer, Hanna M..	Au	Aurora
Withers, Roscoe D.	Mu	Lincoln
Witte, Edward Lewis.	T, (S)	Riverton
Wittie, Ella Cetonia.	Au, (S)	Lincoln
Wittmann, Elizabeth Marie.	A 4, (FA)	Lincoln
Wohlenberg, Ernest Theodore Fred.	CA 3	Lincoln
Wohlford, Charles Jerit.	E 1	Rushville
Wolcott, Mabel.	T 4	Central City
Wolcott, Vella.	T 1, (FA)	Central City
Wolessensky, Frank.	E 4	Crete
Wolfanger, Lenora Olive.	G, (S)	Lincoln
Wolfe, Isabel Juanita.	T, (S)	Lincoln
Wolfe, Mary Emeline.	A 4, (S.)	Lincoln
Wolford, Claude D.	Eu	Fairmont
Wolgamot, Winifred Olta.	G	Lincoln
Wolvington, William Thomas.	L 1, A 4, (S, Ex)	Lincoln
Wood, Adah Mary.	A 3, (S)	University Place
Wood, Donald Lester.	A 1	Omaha
Wood, Doris.	A 3	Omaha
Wood, Emily Bingham.	T, (Ex).	Omaha
Wood, Ivan Daley.	E 3	Clarks
Wood, James Ralph.	CA 2	Omaha
Wood, Roy Anthony.	L 1	Lakeside
Woodard, Dean Sanford.	M 2	Lincoln
Woodburn, Mary Edith.	T, (S, Ex)	Alma
Woodruff, Gerald D.	T 1	Lincoln
Woodruff, Gertrude.	A 1, (SM)	O'Neill
Woods, Eugenia.	Au, (SM)	Lincoln
Woods, Ruth.	A 3	Ashland
Woodward, Fred E.	T, (S)	Lincoln
Woodward, James Mac.	A 2	Lincoln
Woodward, Mildred Maud.	T 1	Lincoln
Woodworth, Blanche Corinne.	A 2	Silver Creek
Wooster, Margaret.	A 2	York
Worley, Carl Hemenway.	A 2	San Diego, Calif.
Wormser, Lena.	A u	San Diego, Calif.
Wormser, Mary.	Au	Wilber
Worthley, Evans Alvah.	G	
Worthman, Henry Fred.	E 1	Lincoln
Wright, Elizabeth.	T 4	Fairmont
Wright, Herold Bearce.	E 3	Hebron
Wullschlager, Cornelia Freida.	T 1	Leigh
Wunder, Henry Frederick.	L 2	Shelby, Iowa
Wunner, Arthur Darlow.	E 3, A 3.	Stanton
Wyer, James Daniel.	E 1	Lincoln
Wyman, Frances Elizabeth.	CA 1	Lincoln
Wyman, Harriet Minerva.	T 3	Lincoln
Wyman, Louise May.	CA 2	Lincoln
Yates, Katharine Lucile.	A 2	Lincoln
Yates, Paul Emmer.	L 2	Lincoln
Yochum, Charles Lewis.	A 2	Talmage
Yont, Etta.	G, (FA)	Lincoln
Yont, Rose.	T, (FA, S, SM)	Lincoln
York, Licena May.	T, (S, Ex).	Havelock
Young, Blaine Augustus.	A 3, M 1	Malvern, Iowa
Young, Charles E.	E 4	Tecumseh
Young, Earl Shafer.	A 1	Hebron
Young, Horace James.	CA 3	North Bend
Young, Lyle.	A 2, (SM).	Lincoln
Young, Oscar Harold.	A 3	Oakland
Youngs, Carrie.	T, (S, FA)	Chillicothe, Mo.
Zacek, Thomas Zachary.	A 4, E 2.	West Point
Zimmer, John Todd.	G	Lincoln
Zink, Bessie.	A. (S.)	Stuart
Zook, Leslie Lewis.	G	Lincoln
Zumwinkel, Alwine Caroline.	T 3	Utica
Zumwinkel, Charlotte Anna.	T, (S).	Utica



1910—1911

## ROSTER OF STUDENTS IN THE SCHOOLS\*

Agriculture, Fine Arts, Music, Pharmacy, Teachers College High School,  
and Department of University Extension.

## Abbreviations

Letter indicates school and figure indicates year.

SA—School of Agriculture; SAs—School of Agriculture, short course; FA—School of Fine Arts; SM—School of Music; P—School of Pharmacy; HS—Teachers College High School; Ex—University Extension; u—Unclassified.

Name	School or Department	Home Address
Abbott, Harry Earl.	SA 1	Tecumseh
Ackermann, Elsie	SM	(Nebraska)
Acott, Florence.	FA, (S)	Lincoln
Adams, Georgia	Ex.	Oxford
Adams, Letha	SM	(Nebraska)
Adams, Orra Scott	SA 2	Venus
Adams, Perry Oliver	SA 1	Venus
Aker, Lyman Louis.	SA 3	Harvard
Albrecht, Albert.	SM	(Nebraska)
Alden, Catherine Priscilla.	SM	(Minnesota)
Alden, Clara	Ex.	Laurence
Alexis, Carl.	SM	(Nebraska)
Alfonso, Emelio	HS	Lincoln
Allen, Edith	HS	Lincoln
Allen, Frank.	SM	(Nebraska)
Allen, George	SM	(Nebraska)
Allen, Harriet.	FA	Lincoln
Allen, Marie.	SM	(Nebraska)
Allen, Muriel	SM	(Nebraska)
Almquist, Florence.	SM	(Nebraska)
Ammon, Ben.	SA 1	Pony Lake
Amos, Mary Leonora	SA 3	University Place
Anderson, Alfred.	HS	Lincoln
Anderson, Anna E.	SM	(Nebraska)
Anderson, Edo Hillding.	(2 yr.) P 1	Holdrege
Anderson, Edna Marion.	SAu	Stromsburg
Anderson, Edwin John.	SAs	Spalding
Anderson, Elmer Siegfred.	SAs	Concord
Anderson, Elof.	SAs	Yutan
Anderson, Esther.	HS	Lincoln
Anderson, Eva.	Ex.	Aurora
Anderson, John.	SA 3.	Omaha
Anderson, Kate.	SM	(Wyoming)
Anderson, Lydia.	Ex.	Aurora
Anderson, Mabel.	HS.	College View
Anderson, Marjorie.	SM	(Nebraska)
Anderson, Mont Joseph.	SAs	Osceola
Anderson, Nettie.	HS.	Lincoln
Anderson, Oscar.	SAs	Harvard
Andrews, Jessie.	SM	(Nebraska)
Andrews, Luther.	SM	(Nebraska)
Angelo, Susie.	SA 1	Rokeby
Anthony, Harriet Mae.	SM	(Nebraska)
Appel, Jens.	SAs	Dannebrog
Applegate, Oscar Ezra.	SA 3	Gibbon
Arbogast, Louis.	SM	(Montana)
Arendt, Georgia May.	SM	(Nebraska)

\*Immediately preceding this roster appear the names of students registered primarily in the colleges. No name appears on more than one roster. For definition of letters in parenthesis see first roster immediately preceding.

Arendon, Celia Lucile.	SM	(Nebraska)
Arnold, Arthur Harry.	SA 2	Inavale (Nebraska)
Arnold, Mrs. H.	SM	Funk
Arnold, Irving George.	SA 1	Inavale
Arnold, Martha May.	SA 1	Aurora
Arnold, Orton Frisbee.	SA 2	(Nebraska)
Arterburn, Lucile.	SM	Lincoln
Arterburn, Roley.	HS.	College View
Asp, William Francis.	SA 1	Omaha
Atkinson, Ada Irwin.	Ex.	(Nebraska)
Atkinson, William.	SM	(Nebraska)
Atwood, Juliette.	SM	Arcadia
Aufrecht, Emil Gottheib.	SAs	Omaha
Avery, Leon Charles.	SAs	(Nebraska)
Awsumb, Honore.	SM	Oxford
Ayer, Clara.	Ex.	Oxford
Ayer, Cora.	Ex.	(Nebraska)
Babb, Claude.	SM	(Nebraska)
Babcock, Dora.	SM	(Nebraska)
Babcock, Vale.	SM	Wood River
Babel, William Wesley.	SAs	Lewiston
Bachenberg, Fred L.	SAs	Stromsburg
Backlund, Theodore William.	SA 2	(Nebraska)
Bagnell, Ruth Lee.	SM	Wymore
Bailey, Charles.	HS.	(Nebraska)
Bailey, Hettie.	SM	McCook
Baines, Albert.	Ex	McCook
Baines, Julia.	Ex.	Lincoln
Baird, Florence.	HS.	Minden
Baker, Charley Everett.	SAs	Tilden
Baker, Clement Guy.	SAs	Elgin
Baker, William Harold.	SAs	Lincoln
Balch, Helen.	HS	Lincoln
Balderson, Alice Rena.	SM	(Nebraska)
Baldwin, Genevieve H.	Ex.	Omaha
Baldwin, Mrs. John N.	Ex.	Omaha
Baldwin, Nellie.	SM	(Nebraska)
Balis, Mary.	SM	(Nebraska)
Ball, Myrtle Elizabeth.	SA 1	Lincoln
Ball, Nina Ellyn.	HS.	Lincoln
Ballard, Joy.	HS.	Lincoln
Ballard, Ralph.	Ex.	Oxford
Ballinger, Gail.	HS.	Lincoln
Barger, Celene.	SM	(Iowa)
Barker, Herbert West.	SAu.	University Place
Barker, Lucille.	SM	(Nebraska)
Barnhard, Lloyd.	HS.	Lincoln
Barnhart, Rollin.	SA 1	Lincoln
Barr, Morris Greeley.	SAs	Stanton
Barrett, Charles.	HS.	Lincoln
Barrett, Clinton.	SAs	Lawrence
Barrett, Irvin Charles.	SA 2	Wood River
Bartek, Julius.	SM	(Nebraska)
Bartles, Walter Ernest.	SA 1	Columbus
Bartunek, Frank.	SM	(Nebraska)
Bartz, Carl Richard.	SA 1	Phillips
Bastain, Mrs. Edna.	Ex.	Shelton
Batty, Elizabeth.	SM	(Nebraska)
Bauder, Mary.	Ex.	Phillips
Bauer, Gertrude.	HS.	Lincoln
Bauer, Rosina Pauline.	SM, HS	Lincoln
Bauer, Will George.	SAs	Gilead
Baumer, Bertha.	Ex.	Omaha
Beach, Annie Laurie.	SM	(Nebraska)
Beach, Etta.	SM	(Iowa)
Beach, Irving Judson.	SA 2	Quick
Beaumont, Helen.	SM	(Nebraska)
Becker, Eugene Wellington.	SA 2	Lincoln

Becker, William Frederick.....	SA 3 .....	Lincoln
Beckord, Henry George.....	(2 yr.) P 2 .....	Waco
Beebe, Henry Curtis.....	SA 2 .....	North Bend
Behnke, Joseph Charles.....	SAs .....	Indianola
Bell, Merle.....	SM .....	(Nebraska)
Benham, Thomas Edwin.....	SA 1 .....	Lincoln
Benjamin, Ada.....	SM .....	(Nebraska)
Benner, Henry.....	SM .....	(Nebraska)
Benner, Paul John.....	SA 1 .....	Lincoln
Bennett, Elinor Marcia.....	SM .....	(Nebraska)
Bennett, Helen.....	SM .....	(Nebraska)
Bennett, Rolley Ezra.....	SA 2 .....	Winnetoon
Bennison, Maude.....	SM .....	(Nebraska)
Bennison, Sam.....	SA 2 .....	Lincoln
Bentley, Mrs. Lulu.....	Ex. ....	Shelton
Bentley, Mamie.....	Ex. ....	Bloomington
Bentley, Reuben.....	Ex. ....	Bloomington
Bentz, Ethel Fern.....	HS .....	Swanton
Bergren, Mabel.....	SM .....	(Nebraska)
Bergman, Nathan.....	SM .....	(Nebraska)
Bergstrom, Ruth.....	SM .....	Havelock
Bern, Amy Christy.....	SA 3 .....	Wahoo
Bern, Carl Elmer.....	SA 2 .....	Wahoo
Berry, Charles.....	SA 3 .....	Edison
Bessey, Hazel.....	Ex. ....	Central City
Bevans, George Ross.....	SM .....	(Nebraska)
Biba, Albert.....	SA 1 .....	Exeter
Bigelow, Del Jay.....	SA 3 .....	Harrison
Bigelow, Lee Franklin.....	SA 3 .....	Harrison
Bigelow, Nettie Theo.....	SA 3 .....	Fairbury
Bignell, Vera.....	SM .....	(Nebraska)
Biles, Ethel.....	SM .....	(Nebraska)
Billiar, Walter Frederick Philip.....	SA 1 .....	Wilcox
Birt, Harry.....	Ex. ....	Oxford
Bishop, Mrs. E. H.....	Ex. ....	Central City
Bishop, Jacob.....	Ex. ....	Central City
Bishop, Jennie Chandler.....	SM .....	(Nebraska)
Bishop, Pauline Alma.....	SM, FA. (S) .....	Lincoln
Black, Marjorie.....	SM .....	(Nebraska)
Blackburn, Glen.....	SM .....	(Nebraska)
Blauvelt, Velma.....	Ex. ....	Oxford
Bliss, Grace.....	Ex. ....	Shelton
Blockwell, Mrs. Warren S.....	Ex. ....	Omaha
Blodgett, Reuben Emery.....	SA 3 .....	Beatrice
Blum, Della.....	SM .....	(Nebraska)
Bly, Mrs. Della.....	Ex. ....	Shelton
Bochmer, Edna.....	SM .....	(Nebraska)
Boettger, Otto Marx.....	SAs .....	Florence
Boggs, Allen.....	SM .....	(Nebraska)
Bonnell, Daisy Frow.....	Ex. ....	Omaha
Bordner, Franklin Glen.....	SM .....	(Nebraska)
Borglum, Theodora Martha.....	Ex. ....	Omaha
Borgquist, David Phillip.....	SAs .....	Gothenburg
Boslaw, Frances Olivia.....	SA 2 .....	University Place
Bourke, Anna.....	Ex. ....	Omaha
Bourke, Pauline.....	Ex. ....	Omaha
Bovey, John Royal.....	SA 2 .....	Crete
Bowen, Abba Willard.....	Ex. ....	Omaha
Bowers, Nelson James.....	HS .....	Lincoln
Boyce, Henry Harold.....	SA 2 .....	Pierce
Boyd, Hazel.....	Ex. ....	Omaha
Boyd, Vera.....	Ex. ....	Omaha
Boyers, Bertha.....	SM .....	(Nebraska)
Bradford, Harold N.....	(2 yr.) P 1 .....	University Place
Bradney, Velma.....	Ex. ....	Bloomington
Brainard, Willis Nathaniel.....	SA 3 .....	Normal
Branch, Henry, Jr.....	SM .....	(Nebraska)
Brehm, Clara.....	SM .....	(Nebraska)

Brewster, Willard . . . . .	SM . . . . .	(Nebraska)
Bridge, Nora S . . . . .	Ex. . . . .	Omaha
Brinckerhoff, Gilbert Earnest . . . . .	SA 3 . . . . .	Cuba
Brinton, Charles Wilmot . . . . .	SA 2 . . . . .	Lincoln
Bristow, Janey . . . . .	SM . . . . .	(Nebraska)
Broadfield, Anna . . . . .	Ex. . . . .	Omaha
Brodboll, Susan . . . . .	SM . . . . .	(Nebraska)
Broderson, Alta . . . . .	SM . . . . .	(Nebraska)
Broening, Marie . . . . .	SM . . . . .	(Nebraska)
Brooks, W. G . . . . .	Ex. . . . .	Caldwell, Idaho
Brooks, Winifred Weston . . . . .	SM . . . . .	(Nebraska)
Brown, Arthur Josie . . . . .	SAs . . . . .	Alda
Brown, Benjamin Frank . . . . .	SA 3 . . . . .	Chappell
Brown, Harley . . . . .	HS . . . . .	Lincoln
Brown, Minnie . . . . .	SM . . . . .	(Nebraska)
Brown, Ora Clayton . . . . .	SA 2 . . . . .	Carleton
Brown, Richard James . . . . .	(2 yr.) P 1 . . . . .	Scottsbluff
Brown, Robert . . . . .	SAs . . . . .	Alda
Browne, Maude . . . . .	Ex. . . . .	McCook
Bryan, Grace Dexter . . . . .	SM . . . . .	(Nebraska)
Bryan, Mary . . . . .	SM . . . . .	(Nebraska)
Bryne, James J . . . . .	Ex. . . . .	Greeley
Bryson, Lyman L . . . . .	SM . . . . .	(Nebraska)
Buehler, Blanche . . . . .	SM . . . . .	(Nebraska)
Buford, John Matthew . . . . .	SA 1 . . . . .	Falls City
Bull, Henry Garsten . . . . .	SA 1 . . . . .	Elkhorn
Burbank, Herbert Benjamin . . . . .	SAs . . . . .	Filley
Burgess, Charles Norman . . . . .	SA 1 . . . . .	Omaha
Burgess, Gerald Eugene . . . . .	SAs . . . . .	DeWitt
Burke, Mrs. C. A. . . . .	Ex. . . . .	Central City
Burke, Elena . . . . .	SM . . . . .	(Nebraska)
Burkerd, Mrs. Jessie . . . . .	Ex. . . . .	Shelton
Burnett, Edward Lester . . . . .	SAs . . . . .	Buffalo, Wyo.
Burnham, Gladys . . . . .	Ex. . . . .	Bloomington
Burr, E. M. . . . .	Ex. . . . .	Aurora
Burr, Grace . . . . .	SM . . . . .	(Iowa)
Burton, Ena . . . . .	SM . . . . .	(Nebraska)
Busch, Henry Christian . . . . .	SA 3 . . . . .	St. Libory
Bush, Frank . . . . .	HS . . . . .	Lincoln
Bush, William Elsie . . . . .	SAs . . . . .	Bartley
Busteed, Gertrude . . . . .	SM . . . . .	(South Dakota)
Butler, Ada Medlyn . . . . .	SA 2 . . . . .	Cambridge
Butler, Claire . . . . .	HS . . . . .	Lincoln
Butler, Louise . . . . .	SM . . . . .	(Nebraska)
Byerly, Virginia . . . . .	Ex. . . . .	Nebraska City
Byran, Hoyt . . . . .	Ex. . . . .	Bloomington
Cadwellader, Miles . . . . .	Ex. . . . .	Oxford
Caldwell, Evelyn . . . . .	HS, FA . . . . .	Lincoln
Calkins, Harold Almond . . . . .	SA 2 . . . . .	Lincoln
Call, Edna . . . . .	Ex. . . . .	Aurora
Callan, Ruth Frances . . . . .	SA 2 . . . . .	Odell
Callen, Glenn . . . . .	Ex. . . . .	McCook
Campbell, Arthur Webster . . . . .	SA 2 . . . . .	Bethany
Campbell, Martha . . . . .	Ex. . . . .	South Omaha
Campbell, Myrtle Ellen . . . . .	SA 1 . . . . .	Gresham
Carlson, Henry . . . . .	SA 1 . . . . .	Lincoln
Carlson, Walter Richard . . . . .	SA 1 . . . . .	Ceresco
Carns, Lucy . . . . .	Ex. . . . .	Central City
Carpenter, Ray Wilford . . . . .	SA 3 . . . . .	Fontanelle
Carr, Ida L . . . . .	SM . . . . .	(Nebraska)
Carroll, Eldred . . . . .	Ex. . . . .	McCook
Carroll, Lavaugh . . . . .	Ex. . . . .	McCook
Carter, Glen L . . . . .	SA 1 . . . . .	Lincoln
Castor, Vera . . . . .	Ex. . . . .	Bloomington
Catchpole, Edith Minnie . . . . .	FA . . . . .	Sterling
Cathcart, Ethel Mae . . . . .	SM . . . . .	(Nebraska)
Cattle, Alice Muriel . . . . .	SM . . . . .	(Nebraska)
Cavanaugh, Winona . . . . .	SM . . . . .	(Kansas)

Cave, Nellie.....	SM .....	(Kansas)
Cejka, Rose Henrietta.....	SA 3 .....	Valparaiso
Chamberlain, Hazel Phyllis.....	SA 2 .....	Panora
Chambers, Bernice.....	SM .....	(Nebraska)
Chapin, Donald.....	HS .....	Lincoln
Chapman, Florence.....	SM .....	(Nebraska)
Chappell, Elwood Blake.....	(2 yr.) P 1 .....	Osmond
Charlton, Hugh.....	SA 2 .....	Omaha
Chase, Charles Murdock.....	SAs .....	Pawnee City
Chase, Helen.....	SM .....	(Nebraska)
Chase, Ruth.....	Ex. ....	Omaha
Chatelain, Mrs. B. A.....	Ex. ....	Omaha
Ch stem, Abner Kenneth.....	SA 1 .....	Decatur
Chilcoat, Ray.....	SA 2 .....	Stanton
Childs, Mrs. Lowrie.....	Ex. ....	Omaha
Chittenden, Margaret.....	HS. ....	Lincoln
Chmelka, Ferdinand.....	SM .....	(Nebraska)
Chowins, Hilda Elizabeth.....	SM .....	(Nebraska)
Christensen, Magnus Dale.....	SAs .....	Concord
Christensen, Richard Walker.....	SAs .....	Lindsay
Cinberg, Esther.....	SM .....	(Nebraska)
Cinberg, Lillian.....	SM .....	(Nebraska)
Cizek, Mary Phoebe.....	SA 3 .....	Prague
Claassen, Aaron Jansen.....	SA 2 .....	Beatrice
Clafin, Faith.....	SM .....	(Nebraska)
Clarine, Selma.....	Ex. ....	Oxford
Clark, Flo.....	SA 3 .....	Fairbury
Clark, Isaac Lee.....	SAs .....	Hubbell
Clark, Melissa Evelyn.....	SM .....	(Nebraska)
Clark, Olive.....	Ex. ....	McCook
Clarke, Allen Gordon.....	SM .....	(Nebraska)
Cleary, John.....	SA 1 .....	North Loup
Clease, Mrs. Clement.....	Ex. ....	Omaha
Cleveland, Earl.....	Ex. ....	Bloomington
Cline, Adelbert.....	SM .....	(Nebraska)
Cline, Lucile.....	SM .....	(Nebraska)
Cobb, Marjorie.....	SM .....	(Kansas)
Cobb, Norma.....	SM .....	(Pennsylvania)
Cockle, Earle.....	SM .....	(Nebraska)
Coffman, Bessie Josephine.....	SA 2 .....	Lincoln
Coffman, Marian.....	SM .....	(Nebraska)
Cole, Arthur E.....	SAs .....	Broken Bow
Cole, Charles Victor.....	SAs .....	Star
Cole, Fonzo.....	Ex. ....	Bloomington
Cole, Frank Howard.....	SA 3 .....	Loomis
Coleman, Fred Joseph.....	SAs .....	Lewiston
Collier, Phyllis.....	HS .....	Lincoln
Collman, Algernon.....	HS .....	Lincoln
Combes, Leota.....	SM .....	(South Dakota)
Commons, Erma.....	SM .....	(Nebraska)
Comstock, Edgar Dewitt.....	SA 3 .....	Comstock
Condra, Cordelia.....	HS. ....	Lincoln
Cone, Helen Henrietta.....	SA 2 .....	Lincoln
Conneally, Anna.....	Ex. ....	McCook
Cook, Helen.....	SM .....	(Nebraska)
Cooper, Grace.....	SM .....	(Kansas)
Cooper, Ruth.....	Ex. ....	Shelton
Coplen, Clarence Peter.....	SA 2 .....	Guide Rock
Copley, Lena May.....	SA 2 .....	Fullerton
Corcoran, Charles.....	Ex. ....	Bloomington
Cornell, Carol .....	SM .....	(Nebraska)
Cornell, Ethel.....	SM .....	(Nebraska)
Cosgrave, Katherine A.....	Ex. ....	Omaha
Coupe, Henry Ala.....	SA 3 .....	Falls City
Coupland, William Cressey.....	SA 2 .....	Elgin
Cowan, E. S.....	Ex. ....	Creighton
Crago, Alfred.....	Ex. ....	Randolph
Craig, Alice.....	SM .....	(Nebraska)

Craig, Luella.....	SM .....	(Nebraska)
Cramer, Ralph.....	SAs .....	Wray, Colo.
Crapenhoft, Mabelle.....	SM .....	(Nebraska)
Crawford, Mrs. Frank.....	Ex.....	Omaha
Creigh, Mrs. T. A.....	Ex.....	Omaha
Croft, Paul Harold.....	SA 2 .....	Fairfield
Croft, Veda Weaver.....	SA 1 .....	Fairfield
Crouse, Samuel Thomas.....	(2 yr.) P 1 .....	Osceola
Crowell, Ida M.....	Ex.....	Omaha
Crugh, Mrs. T. A.....	Ex.....	Omaha
Crumley, Mrs. Nora.....	Ex.....	Shelton
Cunningham, Lester Vogel.....	SAs .....	Fullerton
Cunningham, Marie.....	SM .....	(Nebraska)
Dailey, Esther.....	SM .....	(Nebraska)
Dakin, Ruth.....	SM .....	(Colorado)
Dale, Pauline.....	SM .....	(Nebraska)
Daniels, Bryden.....	Ex.....	Bloomington
Danielson, Daisy.....	SA 2 .....	University Place
Darling, Mae.....	Ex.....	Omaha
Darrow, Ralph.....	SM .....	(Iowa)
Daubendiek, Carl Henry.....	SA 2 .....	DeWitt
Davies, Autumn.....	Ex.....	Omaha
Davies, Elna .....	(2 yr.) P 1 .....	Cozad
Davis, Charles.....	Ex.....	Oxford
Davis, Edna.....	SM .....	(Nebraska)
Davis, Emilie M.....	SM .....	(Nebraska)
Davis, Georgia.....	SM .....	(Nebraska)
Davis, Joseph Raymond.....	SA 3 .....	Holbrook
Davis, Melvin Dwight.....	SA 3 .....	Pawnee City
Davis, Mildred.....	FA, S .....	Lincoln
Davis, Robin.....	SM .....	(Nebraska)
Davis, T. W.....	Ex.....	Crawford
Davis, Mrs. T. W.....	Ex.....	Crawford
Dawson, Everett.....	SM .....	(Nebraska)
Day, Edna Belle.....	SA 2 .....	Superior
Day, Henry Robert.....	SA 2 .....	Superior
Dayton, Martha.....	SM .....	(Nebraska)
Dayton, Mary Helen.....	SM .....	(Nebraska)
Dean, Elton Whitney.....	SAs .....	Ashland
Delano, Harry Calvin.....	SA 3 .....	Arcadia
Delano, Lois Elsie.....	SA 2 .....	Arcadia
Demaray, Warren Gray.....	SA 3 .....	Dunning
Dennett, Edith.....	Ex.....	Omaha
Dennis, Paul.....	HS .....	Lincoln
Diamond, Herbert.....	HS .....	Lincoln
Dickey, Bertha.....	Ex.....	Omaha
Dickey, Mrs. J. J.....	Ex.....	Omaha
Dixon, Roy .....	Ex.....	Aurora
Dobbins, Harry.....	HS .....	Lincoln
Dobson, John.....	SA 3 .....	Primrose
Domingo, George M.....	SA 3 .....	Weeping Water
Dorann, Myrtle.....	SM .....	(Nebraska)
Dore, Ruth.....	HS .....	Normal
Doughty, Helen.....	Ex.....	Aurora
Downing, Willard Ross.....	SA 3 .....	Bee
Doyle, Mildred.....	SM .....	(Nebraska)
Draemel, Fred John Ernest.....	SAs .....	Scribner
Drake, Wanda.....	Ex.....	Oxford
Draper, Julia.....	Ex.....	Oxford
Drebart, Eleanor.....	SM .....	(Nebraska)
Duboff, Harry.....	SM .....	(Nebraska)
Duda, Edward James.....	SAs .....	Linwood
Duff, Daniel Robert.....	SA 3 .....	Pierce
Duhrkof, Gustav.....	SM .....	(Nebraska)
Dunker, Pearl.....	SM .....	(Nebraska)
Dunn, Verne.....	Ex.....	Bloomington
Eakin, Etna.....	HS, SM .....	Lincoln
Eames, Jane.....	SM .....	(Nebraska)

Eaton, Alma . . . . .	SA 2 . . . . .	Lincoln
Eaton, Frank . . . . .	Ex . . . . .	Aurora
Edmunds, Evan . . . . .	HS . . . . .	Benson
Edwards, Genevieve . . . . .	Ex . . . . .	Oxford
Egan, Ray . . . . .	SAs . . . . .	Grafton
Ehmen, Lena . . . . .	SA 2 . . . . .	Sterling
Eigenbroadt, Heila . . . . .	HS . . . . .	Lincoln
Ellinger, Frank Milton . . . . .	SA 1 . . . . .	Red Cloud
Ellingsworth, Fern . . . . .	HS . . . . .	Lincoln
Ellingsworth, Marion . . . . .	HS . . . . .	Lincoln
Elliott, John . . . . .	SM . . . . .	University Place (Nebraska)
Ellis, Lucile . . . . .	SM . . . . .	Allen
Ellis, Mabel M . . . . .	SM . . . . .	(Nebraska)
Ellis, Mary A . . . . .	Ex . . . . .	Central City
Ellis, Ora . . . . .	SA 3 . . . . .	University Place
Ellison, Arthur Maxwell . . . . .	HS . . . . .	Lincoln
Emery, Paul . . . . .	HS . . . . .	Shelton
Emigh, Mrs. Alice . . . . .	Ex . . . . .	Lincoln
Emmert, Claudie Barnes . . . . .	FA . . . . .	Omaha
Engel, Marietta . . . . .	Ex . . . . .	McCook
Enright, Genevieve . . . . .	Ex . . . . .	(Nebraska)
Ensey, Grace . . . . .	SM . . . . .	Lincoln
Ensign, Pauline . . . . .	HS . . . . .	(Nebraska)
Enslow, Mrs. Howard . . . . .	SM . . . . .	Hemingford
Enyearnt, Thomas Ross . . . . .	SA 1 . . . . .	(Nebraska)
Epstein, David . . . . .	SM . . . . .	Funk
Erickson, John Eric . . . . .	SA 3 . . . . .	Stromsburg
Erickson, Theodore Oscar . . . . .	(2 yr.) P 1 . . . . .	Lincoln
Ericson, Herbert Carl . . . . .	SAs . . . . .	Stromsburg
Ericson, Reuben . . . . .	SA 3 . . . . .	Neligh
Ernest, Roy Bertis . . . . .	SAs . . . . .	Aurora
Ernst, Ezra . . . . .	Ex . . . . .	Aurora
Ernst, Ross . . . . .	Ex . . . . .	Red Cloud
Essig, Cecil . . . . .	SA 1 . . . . .	(Nebraska)
Estabrook, Ray . . . . .	SM . . . . .	(Iowa)
Ethredge, Marcia . . . . .	SM . . . . .	(Nebraska)
Evans, Catherine . . . . .	SM . . . . .	Lawrence
Evans, Owen Griffith . . . . .	SA 1 . . . . .	Denton
Eversole, Merle . . . . .	HS . . . . .	Harbine
Ewing, Marguerite . . . . .	HS . . . . .	University Place
Eyestone, Howard . . . . .	SA 1 . . . . .	(Nebraska)
Fair, Jess . . . . .	SM . . . . .	(Nebraska)
Fairchild, Mary E . . . . .	SM . . . . .	Merriman
Fairhead, Joy . . . . .	SA 1 . . . . .	(Nebraska)
Farnham, Irv . . . . .	SM . . . . .	(Nebraska)
Farquhar, Raymond . . . . .	SM . . . . .	(Nebraska)
Farwell, Mr . . . . .	SM . . . . .	Havelock
Feather, Orin Thomas . . . . .	SA 1 . . . . .	(Nebraska)
Fehner, Almo . . . . .	SM . . . . .	Omaha
Fiel, Mrs. N. P . . . . .	Ex . . . . .	(Nebraska)
Finnegan, Loretto . . . . .	SM . . . . .	Beatrice
Fishback, Ethel Grace . . . . .	SA 2 . . . . .	Norden
Fisher, Edwin Guy . . . . .	SA 1 . . . . .	McCook
Fisher, Lela . . . . .	Ex . . . . .	Lincoln
Fisk, Alice . . . . .	HS . . . . .	Tecumseh
Fithian, Raymond . . . . .	SAs . . . . .	(Nebraska)
Fitzgerald, Helen . . . . .	SM . . . . .	Auburn
Flack, Bert William . . . . .	SAU . . . . .	Lincoln
Fleming, Ivan Ellsworth . . . . .	FA . . . . .	Randolph
Fleur, Willie Gail . . . . .	SAs . . . . .	(Nebraska)
Fling, Effie . . . . .	SM . . . . .	University Place
*Flood, Walter Carlton . . . . .	SA 2 . . . . .	(Nebraska)
Fodrea, Genevieve . . . . .	SM . . . . .	(Nebraska)
Fogelson, Dorothy . . . . .	SM . . . . .	(Nebraska)
Fogelson, Lillie . . . . .	SM . . . . .	(Nebraska)
Fogelson, Tillie . . . . .	SM . . . . .	(Nebraska)

\*Deceased.

## ROSTER OF STUDENTS

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Felritt, Edith.....	Ex.....	Omaha (Nebraska)
Folsom, Arnott.....	SM.....	Oakland
Ford, Edna Euphemia.....	SA 2.....	Oakland
Ford, Richard Judson.....	SA 3.....	Oakland
Forke, Edna.....	SM.....	(Nebraska)
Forrest, Bernice.....	SM.....	(Nebraska)
Forrest, Owen G.....	SM.....	(Nebraska)
Fosby, Oscar Carl.....	SAs.....	Clarks
Fowler, Preston.....	SM.....	(Nebraska)
Fox, Lena.....	SM.....	(Nebraska)
Foxworthy, Theo.....	Ex.....	Central City
Foxworthy, Vesta.....	SM.....	(Nebraska)
Frame, Ray Lester.....	SAs.....	Pleasanton
Frampton, Eleanor.....	SM.....	(Nebraska)
Frankish, Ellen H.....	Ex.....	South Omaha
Frater, Dulcie.....	SM.....	(Nebraska)
Frauen, Max.....	SAs.....	Norden
Fredeen, Selma.....	SM.....	(Nebraska)
Freeman, Howard.....	HS.....	Lincoln
French, Mary Francella.....	SM.....	(Nebraska)
French, Mureil Louise.....	SM.....	(Nebraska)
Frerichs, Fred.....	SM.....	(Nebraska)
Frey, Olive.....	SM.....	(Nebraska)
Frey, Mrs. R. E.....	Ex.....	Omaha
Friday, Curtis.....	Ex.....	Oxford
Fritz, Ethel.....	SM.....	(Missouri)
Fritzen, Laveita.....	SM.....	(Nebraska)
Frost, Eugenia.....	SM.....	(Nebraska)
Frost, Milian.....	SM.....	(Nebraska)
Fye, Arthur.....	Ex.....	Aurora
Gaeckler, Harry Binns.....	SA 1.....	Lincoln
Gage, Vernon Lasch.....	SA 3.....	Lincoln
Gage, Wendell James.....	SA 2.....	Lincoln
Galbraith, Clarence James.....	SA 2.....	Fairbury
Gallup, Asa.....	SA 2.....	Friend
Gallup, George Edward.....	SA 2.....	Friend
Galusha, James.....	HS.....	Lincoln
Galusha, Juliet.....	SM.....	(Nebraska)
Galusha, Pattie.....	SM.....	(Nebraska)
Gammon, Clarence James.....	Sau.....	Buffalo, Wyo.
Gannon, Frances.....	SM.....	(Nebraska)
Garble, Mrs. Francis C.....	Ex.....	Omaha
Gardner, Alice.....	SA 1.....	Gering
Garey, L. F.....	Ex.....	Madison
Garrison, Fay.....	HS.....	Lincoln
Gassmann, Louise.....	SM.....	(Nebraska)
Gatewood, Teresa.....	Ex.....	McCook
Gealy, Clarence.....	SM.....	(Nebraska)
Gealy, Ralph John.....	SA 1.....	Gordon
Geary, Reginald Benjamin.....	SA 1.....	Inman
Geiger, Bernice.....	SM.....	(Nebraska)
George, Mrs. Charles C.....	Ex.....	Omaha
George, Glenn Garland.....	SAs.....	Sioux
George, Winnifred.....	SM.....	(Nebraska)
Gerald, Sister.....	SM.....	(Kansas)
Gertsch, Gilbert.....	SA 1.....	Platte Center
Gesswood, Katie.....	Ex.....	Bloomington
Gifford, Mrs. Harold.....	Ex.....	Omaha
Gillet, Helen.....	SM.....	(Nebraska)
Gilligan, George Ward.....	SA 2.....	Lincoln
Gingrich, Fred Jacob.....	SA 2.....	Aurora
Given, Elsa Louise.....	SM.....	(Nebraska)
Gladfelder, Ethelyn.....	SM.....	(Nebraska)
Goecke, Will Fred.....	SAs.....	Germantown
Goehner, William Oscar.....	SA 3.....	Seward
Goevel, Henry.....	SAs.....	West Point
Goffe, Jay Emory.....	SA 2.....	University Place
Good, Ethel.....	FA.....	Lincoln

Goodwin, Roland Henry	SA s	Loup City
Gordon, Iva	Ex.	McCook
Goss, Vivian	SM	(Nebraska)
Gould, Charles Morton	SA 2	Omaha
Gowen, Wardner Earl	SA s	North Loup
Graff, Raymond Chester	SA 2	Bancroft
Graham, Marjorie	SM	(Nebraska)
Graham, Melle	SA 2	Creston
Grant, Selma	SM	(Nebraska)
Graunke, Mabel	SA 1	West Point
Graves, Chester Author	SA 2	Tobias
Graves, Helen	SM	(Nebraska)
Gray, Naomi	Ex.	Central City
Green, Guy	Ex.	Bloomington
Green, Lloyd	SM	(Nebraska)
Green, Mabel	SM	(Nebraska)
Greenamyre, Irene	HS	Cheneys
Greenman, Genevieve	HS	Lincoln
Greer, Vancil Kelso	SM	(Nebraska)
Grier, Kenneth	SM	(Nebraska)
Griesel, Charles Adam	SA 3	University Place
Groeling, Hilda	SA 1	Walnut
Gross, Emma L.	Ex.	Omaha
Gross, Frank	SAs	Clarkson
Gross, Frederick William	SAs	Clarkson
Gross, Irma H.	Ex.	Omaha
Gunerud, Lawrence	SA 1	Omaha
Gunn, Earl Sanderson	SA 1	Palisade
Gustafson, Joe Carl I.	SAs	Phillips
Gustin, Plomer	HS	Lincoln
Gutner, Chester C.	SM	(Nebraska)
Gutner, Florence	SM	(Nebraska)
Gutzmer, Elmer	HS	Lincoln
Hagberg, John Alfred	SAs	Bristow
Hager, Margaret	SM	(Nebraska)
Hahn, Beryl	SM	(Nebraska)
Haight, Edith I.	Ex.	Omaha
Hale, Grace	SM	(Nebraska)
Hall, Carrie	Ex.	Pierce
Hall, Helen Elizabeth	HS	Lincoln
Haldorson, Sophia	FA	Lincoln
Hanger, William Munsford	SA 3	Waterloo
Hanks, Della	FA	Lincoln
Hanks, Mildred	SM	(Nebraska)
Hanna, Joy	SA 3, SM	Lexington
Hanna, Roy Raymond	SAs	Falls City
Hansen, Peter Jansen	SAs	Hampton
Hansen, Veda Laurenzo	SA 2	Archer
Hanson, Alma	SM	(Nebraska)
Hanson, Jessie	SM	(Nebraska)
Hanson, Linn Ford	SA 3	Concord
Harden, Herbert C.	(2 yr.) P 2	Liberty
Harding, John Edward	SA 2	South Omaha
Harper, Eloise	SM	(Nebraska)
Harper, Henry Cameron	HS	Normal
Harrington, Atlee Baugher	SA 2	Bucklin, Mo.
Harrington, Ben	Ex.	Bloomington
Harris, Cecil Cleom	SA 1	Fairbury
Hart, Earl	Ex.	Bloomington
Hart, Julia	Ex.	Bloomington
Hart, Paul	Ex.	Bloomington
Hartley, Charlie	SM	(Nebraska)
Hartmen, Alma	SM	(Nebraska)
Hartzell, Wilford	SM	(Nebraska)
Harvey, Rufus Clark	SAs	Sutherland
Haskell, Riley Kent	SA 1	Milldale
Hastings, Laura	SM	(Nebraska)
Hatcher, Margaret Marie	SM	(Nebraska)

## ROSTER OF STUDENTS

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Hauchett, Ida M.	Ex.	Council Bluffs, Iowa
Haumont, Joseph Anthony	SA 1	Elton
Haverstrik, Mrs. George E.	Ex.	Omaha
Hayes, Mrs. J. A.	Ex.	Central City
Hayes, Verna	SM	(Nebraska)
Haynes, Charles	SM	(Nebraska)
Hayward, Alice Benjamine	SA 2	Lincoln
Hayward, William Hiram	SA 2	Kansas City, Mo.
Haywood, Lucy	SM	(Nebraska)
Hearson, Stella	HS.	Lincoln
Hegenburger, Mabel	Ex.	McCook
Heiderstadt, Stewart H.	SA 3	Geneva
Heidtbrink, Hedwig	SM	(Nebraska)
Heise, Ida W.	Ex.	Nebraska City
Hellner, Martha	Ex.	Oxford
Hemstead, Ora	Ex.	Bloomington
Henninger, Mrs. Elizabeth	Ex.	Shelton
Henthorn, John D.	SAS	Aurora
Henthorn, Wayne	SAS	Aurora
Herbst, William	SAS	Leigh
Hergenrother, Ray	Ex.	Oxford
Hermansen, Anna Mae	SM	(Nebraska)
Herpolzheimer, Erwin	SM	(Nebraska)
Heureman, Mary	Ex.	Aurora
Hibbard, Helen	Ex.	Omaha
Hicks, Grace Ethel	SM	(Nebraska)
Higgins, Clifford John	SA 1	Nelson
Hildebrand, Bessie	SM	(Nebraska)
Hilgert, Cecelia	Ex.	Shelton
Hill, Clara	HS.	Lincoln
Hill, Daniel	SM	(Nebraska)
Hill, Julius	SM	(Nebraska)
Hill, Marion	Ex.	Bloomington
Hilliard, Katherine Haven	Ex.	Omaha
Hillis, Grace Genieve	SA 2	Aurora
Hillis, Richard Gilbert	SA 2	Aurora
Hindman, Grace May	SAS	Lincoln
Hindmarsh, Hazel	SM	(Nebraska)
Hoagland, Mrs. Paul	Ex.	Omaha
Hoagland, Russell Wooster	SAS	Hastings
Hobbensiefken, Frederick Albert	SAS	Platte Center
Hobelmann, Henry Fred	SAS	Deshler
Hoch, Edwin Franklin	SA 2	Roca
Hockerson, Edith	SM	(Nebraska)
Hockerson, Gertrude	SM	(Nebraska)
Hockett, Lindell	Ex.	Central City
Hoehne, William Henry	SAS	Stanton
Hoffer, Brisbon	Ex.	McCook
Hoffman, Libbie	(2 yr.) P 1	South Omaha
Hogg, Irwin	SAS	Shelton
Hohman, William Candee	HS.	Lincoln
Hoiberg, C. P.	Ex.	Nysted
Hoker, Stella Myrtle	SM	(Nebraska)
Holaway, Ella	Ex.	Oxford
Holding, Tom Lawrence	SA 1	Whitney
Holdrege, Susan	Ex.	Omaha
Holland, R. E.	Ex.	Wolbach
Hollenbeck, Alexander	SM	(Nebraska)
Hollingsworth, Ethel	HS.	Lincoln
Hollingsworth, Pearl	Ex.	Shelton
Holmes, Dallas W.	SM	(Nebraska)
Holmes, Gertrude	Ex.	Bloomington
Holmes, Maysel	Ex.	Bloomington
Holmquist, Ethel K.	Ex.	Omaha
Holmstrom, Sylvia Alfrida	FA, (S)	Havelock
Holts, Eleanor	SM	(Nebraska)
Holyoke, Robert	HS.	Lincoln
Hoppe, Clate Lewis	Ex.	Gandy

Hord, Helen . . . . .	Ex . . . . .	Central City
Horton, Fern . . . . .	SM . . . . .	(Nebraska)
Hostetler, Mrs. Ella . . . . .	Ex . . . . .	Shelton
Houchen, Hazel . . . . .	Ex . . . . .	Beaver Crossing
Houfeck, Louis . . . . .	SAs . . . . .	Schuyler
House, John Mathias . . . . .	SA 2 . . . . .	Valentine
Houseman, Amos Leroy . . . . .	SA 2 . . . . .	Crawford
Howard, Bert . . . . .	SAs . . . . .	Nelson
Howell, Mrs. R. B. . . . .	Ex . . . . .	Omaha
Hromas, Emilie . . . . .	SA 1 . . . . .	Bee
Hubbard, Mrs. William . . . . .	SM . . . . .	(Nebraska)
Huff, Leila . . . . .	Ex . . . . .	Oxford
Hugg, Jeannette Mae . . . . .	SAu . . . . .	Lincoln
Hughes, Katherine . . . . .	Ex . . . . .	Omaha
Hull, Lyle F . . . . .	SA 2 . . . . .	Gordon
Hulse, Maude . . . . .	Ex . . . . .	Mankato, Kans.
Hultgren, Howard Delmore . . . . .	SAs . . . . .	Stromsburg
Hummel, Earl . . . . .	HS . . . . .	Lincoln
Hummel, Florence . . . . .	SM . . . . .	(Nebraska)
Hummel, Pearl . . . . .	HS . . . . .	Lincoln
Humphreys, Mary . . . . .	HS . . . . .	Lincoln
Hunt, John Edward, Jr. . . . .	SA 1 . . . . .	Bayard
Hunter, Fred Maurice . . . . .	Ex . . . . .	Norfolk
Huntsman, Frank . . . . .	(2 yr.) P 1, SM . . . . .	(Nebraska)
Hurd, Clarence . . . . .	HS . . . . .	Lincoln
Hurd, Dorothy . . . . .	SM . . . . .	(Nebraska)
Hurd, Lou . . . . .	Ex . . . . .	Valyrange
Huston, Harry Edwin . . . . .	SA 2 . . . . .	Brock
Hyder, Harry Vincent . . . . .	SA 2 . . . . .	Lincoln
Hyers, Martha . . . . .	SM . . . . .	(Nebraska)
Hypse, Edgar Leonard . . . . .	SAs . . . . .	Bristow
Ingles, Lucile . . . . .	SM . . . . .	(Nebraska)
Ingram, Clifford . . . . .	Ex . . . . .	Bloomington
Ireland, Fred Marshall . . . . .	SA 3 . . . . .	Gordon
Isaacson, Hulda F . . . . .	Ex . . . . .	Omaha
Isham, Edward Booth . . . . .	SA 3 . . . . .	Mason, Ill.
Ives, Glade . . . . .	HS . . . . .	Lincoln
Ives, Louise . . . . .	HS . . . . .	Lincoln
Ives, Verona Mae . . . . .	SM . . . . .	(Nebraska)
Jackson, George Louis . . . . .	SA 1 . . . . .	Litchfield
Jacobs, Eliza Clara . . . . .	SM . . . . .	(Kansas)
Jacobs, Harrison Godfrey . . . . .	SA 2 . . . . .	Daykin
Jacobsen, Laura Theresa . . . . .	SA 2 . . . . .	Marquette
Jacobsen, Peter . . . . .	SAs . . . . .	Arapahoe
Jacobson, J. E. . . . .	Ex . . . . .	Omaha
Jaeggi, Gertrude Marguerite . . . . .	SA 2 . . . . .	Columbus
Jarchow, Joseph Herman . . . . .	SA 2 . . . . .	Fairbury
Jarett, Mrs. J. V. . . . .	Ex . . . . .	Central City
Jasa, Anton . . . . .	SA 1 . . . . .	Wahoo
Jenkins, Leone E. . . . .	SM . . . . .	(Kansas)
Jennings, Thomas Cecil . . . . .	SM . . . . .	(Nebraska)
Jensen, Carrie . . . . .	Ex . . . . .	St. Paul
Jensen, Ebbe B. . . . .	SAs . . . . .	Dannebrog
Jensen, Mae . . . . .	SM . . . . .	(Nebraska)
Jerome, Frank . . . . .	SM . . . . .	(Nebraska)
Jindra, Adolph . . . . .	SM . . . . .	(Nebraska)
Jisa, Vladimir . . . . .	SM . . . . .	(Nebraska)
Johansen, Rasmus Gordon . . . . .	SA 2 . . . . .	Wayne
Johnson, Birdie . . . . .	SM . . . . .	(Nebraska)
Johnson, Charles G. . . . .	SM . . . . .	(Nebraska)
Johnson, Edith Myrtle . . . . .	Ex . . . . .	Weeping Water
Johnson, Everett Radcliffe . . . . .	SAs . . . . .	Harvard
Johnson, George Martin . . . . .	SM . . . . .	(Nebraska)
Johnson, Gladys Jessie . . . . .	SA 2 . . . . .	Burchard
Johnson, Herbert Louis . . . . .	SA 2 . . . . .	North Loup
Johnson, Marie . . . . .	SM . . . . .	(Nebraska)
Johnson, Martin Benjamin . . . . .	SAs . . . . .	Gordon
Johnson, Orville E. . . . .	SM . . . . .	(Nebraska)

Johnson, Pauline Lillian.....	SM.....	(Nebraska)
Johnson, Roy Chester.....	SA 2.....	Lyons
Johnson, Roy Eben.....	SAs.....	Wayne
Johnson, Stella.....	Ex.....	Emerald
Johnston, Forest Raymond.....	SA 2.....	Douglas
Jones, Annie Elizabeth.....	SM.....	(Nebraska)
Jones, Arian Hempel.....	SA 2.....	Loup City
Jones, Bryan Evan.....	SA 1.....	Wynot
Jones, Henry Albert.....	SA 2.....	Seward
Jones, Hope.....	Ex.....	Oxford
Jones, Mary Edna.....	SM.....	(Kansas)
Jones, Reuben Leander.....	SAs.....	Hordeville
Jones, Wallace Meredith.....	SAs.....	Fairbury
Jones, William Thomas.....	SA 2.....	Andrews
Jordan, A. A.....	Ex.....	Concord
Jorgensen, Carl Alfred.....	SAs.....	Curtis
Jorgensen, Signe.....	SM.....	(Nebraska)
Junkin, Gail Marie.....	SA 3.....	Smithfield
Karnes, Eunice.....	SM.....	(Nebraska)
Kaufman, Ada S.....	SM.....	(Nebraska)
Kauffman, Hortense E.....	Ex.....	Hardy
Kean, Verna Lucy.....	HS.....	Havelock
Keens, Dorothea Maud.....	FA, (S).....	Lincoln
Keir, Florence.....	Ex.....	Aurora
Keiser, Anna.....	SA 1.....	Sterling
Keiser, Walter Christopher.....	SAs.....	Preston
Kelley, Fred.....	SA 1.....	Nora
Kelley, Sarah C.....	SM.....	(Nebraska)
Kellogg, Pluma.....	SM.....	(Kansas)
Kelsey, Charles Lee.....	SA 3.....	Lincoln
Kemp, Ellinor.....	SM.....	(Nebraska)
Kendrick, Royce Washburn.....	SAs.....	Hartington
Kenin, Fanny.....	SM.....	(Nebraska)
Kenin, Harry.....	SM.....	(Nebraska)
Kenney, Orion.....	SA 1.....	Omaha
Kent, Percy Rolland.....	SA 3.....	Denver, Colo.
Keer, La Vern.....	SM.....	(Nebraska)
Keer, Mabel.....	Ex.....	Aurora
Kesecken, Preston.....	Ex.....	Bloomington
Keuton, Dietrich.....	SA 2.....	Harbine
Kiehnhoff, Estella.....	SM.....	(Kansas)
Kier, Samuel Max.....	SM.....	(Nebraska)
Kimball, Katherine.....	SM.....	(Nebraska)
Kimball, Kent.....	HS.....	Lincoln
Kimball, Richard.....	SM.....	(Nebraska)
Kineaid, Beatrice.....	SM.....	(Nebraska)
Kineaid, Lilah Ruth.....	SM.....	(Nebraska)
Kindig, Albert Sidney.....	SA 2.....	Holmesville
King, Verna.....	SM.....	(Nebraska)
Kinney, Albert Edward.....	SA 1.....	Elgin
Kinscella, Hazel Gertrude.....	SM.....	(Nebraska)
Kirby, Robert Stearns.....	HS.....	College View
Kirkpatrick, Mrs. Thomas.....	Ex.....	Omaha
Kirkwood, Nellie.....	SM.....	(Nebraska)
Kisner, Mary.....	SM.....	(Nebraska)
Kjar, Albert August.....	SA 3.....	Lexington
Knapple, George Pleasant.....	SA 3.....	Lexington
Knapple, Luella Rose.....	SA 1.....	Lexington
Kneeshaw, Agnes.....	Ex.....	Oxford
Knight, Doris.....	SM.....	(Nebraska)
Knight, Ellis Willie.....	SAs.....	Lincoln
Knoft, Mae Josephine.....	SA 2.....	Ord
Knox, Bessie.....	SM.....	(Nebraska)
Knudson, Elicius.....	SM.....	(Nebraska)
Koch, Lillian.....	SM.....	(Nebraska)
Koerner, Viola.....	SM.....	(Nebraska)
Koester, Anna Christine.....	SA 1.....	Scribner
Koester, Otto William.....	SAs.....	Scribner

Kolar, Frank Ernest	SAs	Dwight
Koop, Bess	Ex.	Omaha
Korzendorfer, Tillie Christine	FA.	Lincoln
Koutzl, Mrs. Chas. T.	Ex.	Omaha
Kovanda, Rudolph A.	(2 yr.) P 1, SM	Table Rock
Kozlik, Clement Frank	SA 2	Cleveland, Ohio
Krainek, Genevieve	SM	(Nebraska)
Kramer, William Henry	Ex.	Imperial
Krause, Chris Jerome	SAs	Cedar Bluffs
Krebs, Carl T.	SA 1	Scotia
Kregs, Mary	Ex.	Omaha
Krisl, Rudolph	SAs	Milligan
Kruse, Edith	FA.	Lincoln
Kruse, Richard John	SA 2	Oakland
Kudlacek, Frank	SM	(Nebraska)
Kuehl, Carsten Fred	SAs	Benson
Kuennen, Martha Marie	SAs	Cook
Kuhlman, Lida C.	SM	(Nebraska)
Lahr, Ralph	SM	(Nebraska)
Lake, Lilburn	(3 yr.) P 2	Lexington
Lakin, Lulu Marye	SM	(Nebraska)
Lamb, Joshua Manwarring	SAs	Hubbell
Lambertson, Elizabeth	FA, (S)	Lincoln
Lambrecht, Benjamin Francis	SAs.	Inavale
Landen, Harry	SAs, SAu	Fremont
Landis, Barbara Heistand	SM	(Nebraska)
Landis, Mary Alice	Ex.	Omaha
Langley, Marie Frances	SM	(Nebraska)
Lantz, Ray	SA 2	Kearney
Larsen, Frances	SA 1	St. Paul
Larson, Lillie	SM	(Nebraska)
Larson, Lillie	SAu	Newman Grove
Larson, Ruby	Ex.	Curtis
Lauridsen, Helge	SA 3	Mason City
Laux, William	SM	(Nebraska)
Lavington, Laura	Ex.	Shelton
Lawrence, Charles Gladus	SA 3	Hershey
Lawrence, Elizabeth	HS	Lincoln
Lawrence, Esther Joy	HS, SM	Lincoln
Layton, Iva Marie	SA 2	Odell
Leal, Martha Louise	HS	Ceresco
LeBlanc, Emma	Ex.	Oxford
Lee, Mark Harold	SA 3	Shelton
Lee, Robert	SM	(Nebraska)
Leffler, Esther	SM	(Nebraska)
Lehmkuhl, Lloyd Henry	SA 2	Weston
Lehr, Addie	Ex.	Central City
Lemmon, Edith Lois	SM	(Nebraska)
Lenhoff, Rae	SM	(Nebraska)
Leonard, D. A.	Ex.	Potter
Leonard, Louise	SM	(Nebraska)
Levy, Marian	SM	(Nebraska)
Lewis, Irma	SM	(Nebraska)
Lewis, John Jay	SAs	Hayes Center
Lewis, John Jay	SA 1	Marengo
Lichtenwalter, Ella	Ex.	Hebron
Lichty, Wilma Ruth	SM	(Nebraska)
Lidolph, Mary	SM	(Nebraska)
Liebers, Anna Otilia	SA 1	Minden
Liebers, Hedwig Antonia	SA 2	Minden
Lienemann, Arthur Henry	SAu	Ft. Crook
Lindberg, Adolph Lee	SAs	Gothenberg
Lindberg, Frederick William	SA 2	O'Neill
Lindberg, Louise	SAu	O'Neill
Lindberg, Eleanor Spurgeon	SA 2	Polk
Lindburg, Ruth	SA 1	Polk
Lindburg, Verne Lamar	SAs	Polk
Lindsay, Ruth	SM	(Nebraska)

Lindsteadt, Marcus Carl.	SA 3	Osceola (Indiana)
Link, George	SM	Stanton (Nebraska)
Lint, Floyd Orville	SAs	Nebraska City
Little, Marjorie	SM	(Nebraska)
Little, Miriam	SM	Rushville (Iowa)
Livingstone, Marion Frances	Ex.	(Kansas)
Lockmon, Carl E.	Ex.	Sheldon, Iowa
Lodge, Hazel	SM	Omaha
Loeffler, Fred F.	SM	Inland
Logan, Rose	SAU	Florence
Logasa, Hannah	Ex.	Aurora
Loghry, Florence	Ex.	Columbus
Lonergan, Grace	SA 2	O'Neill Lincoln
Long, Elvira	Ex.	Omaha
Loseke, Ernest Walter	SA 1	(Nebraska)
Losher, Samuel Jacob	SAs	Inavale (Nebraska)
Loughridge, Olive	SA 1	(Nebraska)
Love, Mrs. A. J.	Ex.	Lincoln
Love, Lillian Loise	SM	Omaha
Lovejoy, Clifford	SAs	Oxford
Lowe, J. Elliott	SM	(Nebraska)
Lower, Adelade	SM	Wood River
Lucas, Mrs. Lida	Ex.	Arcadia
Lucas, Mabel	Ex.	Creston, Iowa
Luckey, Hattie Franche	SA 2	Arcadia
Luckey, Louise Katherine	SA 1	Hildreth
Lucking, Minnie	Ex.	Shelton
Luebs, Albert Ernest	SA 1	Cadams
Lueck, Otto Robert	SAs	Trenton
Luedtke, Ed	SA 2	Minden
Lutz, Ormond Ray	FA.	Minden
Lyden, Fred William	SA 1	Asylum
Lyle, Gertrude	Ex.	(Nebraska)
Lynch, J. M.	Ex.	Hardy
Lynch, Walter Jacob	SA 1	(Nebraska)
Lynn, Albert Eddie	SAs	North Loup
Lynn, Laura Marie	SA 2	Spalding
Lyons, John	HS	Lincoln
Lysinger, Verna Mae	SM	Fremont
McBee, Maude	Ex.	(Nebraska)
McCain, Leslie	SM	(Nebraska)
McCall, M. R.	Ex.	Lincoln
McCarthy, Joseph Thomas	SA 2	(Nebraska)
McCarthy, Lee James	SA 3	(Nebraska)
McClean, Elmer	SAs	(Nebraska)
McCrain, Nellie	SM	(Nebraska)
McCray, Neva	SM	(Nebraska)
McCreary, John Charles	SM	(Nebraska)
McCully, Allene	SM	(Nebraska)
McDermott, Mrs. Mary	Ex.	Shelton
McDonald, Allen Herbert	SA 2	Sedwick, Colo.
McDonald, Martha T.	Ex.	Omaha
McDonald, Nettie	SM	(Nebraska)
McDougall, Jane	HS	Lincoln
McFarland, Harry A.	Ex.	Omaha
McGechie, Blanch	SM	(Nebraska)
McGee, Roy	SA 3	Bertrand
McGowan, August Claude	(2 yr.) P 2	Scottsbluff
McGowan, Henry Lawrence	SAs	Rising City
McGurk, James Francis	SA 3	David City
McHugh, Florence Margaret	Ex.	Omaha
McKay, Margaret	SM	(Kansas)
McKee, Anna	Ex.	Haigler
McKee, Marie	Ex.	Aurora
McKenna, Claire	SM	(Nebraska)
McKenney, Pansy	SM	(Nebraska)
McKinstry, Leroy Edwin	SA 2	Sedgwick, Colo.
McKnight, Winfield	SA 2	Lincoln

McMaster, Howard	SM	(Nebraska)
McMellan, Edna	Ex.	Central City
McMillan, Cecile	Ex.	McCook
McNally, Bernard Robert	SAs	Rogers
McNunan, Fred	Ex.	Oxford
McPherson, Louise	Ex.	Omaha
Mace, Greta	SM	(Nebraska)
Mace, Marguerite	SM	Columbus
Mach, C. J.	Ex.	Whitman
Mackey, Ethel	Ex.	Alma
Mackin, Claire Theresa	Ex.	Nebraska City
Mackin, Eugenie M.	Ex.	Omaha
Magill, Alice	SA 3	Lincoln
Maher, Nellie	SM	(Nebraska)
Mailley, James	SAu	Bethany
Main, Edna	Ex.	Central City
Maish, Herbert William	SA 3	Falls City
Major, Alford Monroe	SA 2	Tekamah
Major, Donald	SA 1	Decatur
Malick, Allen Thurman	(2 yr.) P 1	Bloomington
Malone, Ruth	HS	Lincoln
Maloy, Madge	SA 1	Omaha
Manley, Jesse Lincoln	SA 1	Lyons
Mann, Mrs. W. R.	SM	(Nebraska)
Manning, Ruth Beulah	SM	(Nebraska)
Manor, Dorothy	SM	(Indiana)
Mansfield, Georgia	SM	(Nebraska)
Mantor, Edna C.	Ex.	Randolph
Marsh, Benton L.	SA 2	University Place
Marsh, Faye	SM	(Nebraska)
Marsh, James	SAs	Aten
Marsh, Lola	SA 3	Wisner
Marshall, Emily	Ex.	Bloomington
Marshall, Leila	SA 2	Lincoln
Marshall, U. A.	Ex.	Gothenburg
Martin, G. W.	Ex.	Nebraska City
Martin, L. E.	Ex.	Cortland
Martin, Mary Ethel	SM	(Nebraska)
Martin, Merle	Ex.	Central City
Martin, Olis	Ex.	Central City
Marvin, Hattie	Ex.	Oxford
Marx, Earle	SM	(Nebraska)
Marx, Louie	SM	(Nebraska)
Mason, Essie	SM	(Nebraska)
Mason, John Glen	SM	(Nebraska)
Mason, Margaret	SM	(Nebraska)
Mast, Blanche	HS.	Moorefield
Mastin, Albertine	SA 1	Lincoln
Mathews, Mrs. W. V.	SM	(Nebraska)
Mathieson, Effie	Ex.	Hebron
Matteson, Will D.	SM	(Nebraska)
Mattock, Earl James	SA 2	Bladen
Mauer, Frieda	Ex.	Avoca
Maul, Victor	SM	(Nebraska)
Mavity, Florence	FA, (S)	Lincoln
Mawe, Vesta	HS.	Lincoln
Maxwell, Edwin George	(2 yr.) P, (S)	Nemaha
May, Leonore	SM	(Nebraska)
Mazur, Rose	SM	(Wisconsin)
Mecham, Ina Rosella	SA 3	Grand Island
Mecham, Leamon Glenn	SA 1	Grand Island
Meeker, Charles	Ex.	McCook
Meeker, Marie	SM	(Nebraska)
Meese, Charles	SA 1	Ithaca
Meese, Dorothy	SA 1	Lincoln
Megee, Harry	HS.	Lincoln
Melcher, Ida Helena	Ex.	Omaha
Melcher, Mabel	SM	(Nebraska)

Melton, Don Sigal.	SA 3	Sioux
Meredith, Myrtle Belle.	SM	(Nebraska)
Merz, Albert George.	SAs	Battle Creek
Metcalf, Theodore Walter.	HS.	Lincoln
Metz, Arthur.	SA 1	Sioux
Metz, Mrs. Arthur.	Ex.	Omaha
Metz, Mrs. Fred.	Ex.	Omaha
Meyer, John Fred.	SAs	Howells
Meyer, Nettie.	SM	(Nebraska)
Meyers, Esther.	Ex.	Central City
Meyers, Roger.	HS.	West Lincoln
Meyers, W. H.	Ex.	Blair
Mickel, Clarence Eugene.	SM	(Nebraska)
Michelwait, Charles Wesley.	SA 1	Ord
Middleton, William.	SM	(Nebraska)
Miles, Maude Alice.	SM	(Nebraska)
Miller, Ann.	FA.	Lincoln
Miller, Eugene Arnold.	SA 1	Lincoln
Miller, Florence.	SM	(Nebraska)
Miller, Jay.	SM	(Nebraska)
Miller, Jessie.	SM	(Nebraska)
Miller, John Lonman.	SA 3	Simon
Miller, Leone.	Ex.	Bloomington
Miller, Lucetta.	SM	(Nebraska)
Miller, Lucy Margaret.	SM	(Nebraska)
Miller, Odes Bert.	Ex.	Brunswick
Miller, Pearl.	Ex.	Bloomington
Miller, Stella.	HS.	Normal
Miller, Stephen.	Ex.	McCook
Miller, Willamae.	SM	(Nebraska)
Mills, Anthony Edmund.	SAs	Dixon
Mills, Mary.	HS.	College View
Miner, Sidney.	SM	(Nebraska)
Minier, Waldo B.	SA 2	Craig
Minor, Marie.	SM	(Nebraska)
Mitchell, Coilla Brier.	SM	(Wyoming)
Mitchell, James Hunter.	SM	(Nebraska)
Mitchell, Lula Leona.	HS, SM.	Lincoln
Mitchell, Margaret Louise.	SM	(Nebraska)
Moats, Miles Marvin.	SAs	Missouri Valley, Iowa
Moherly, Lillie.	Ex.	Aurora
Mockett, Emily.	SM	(Nebraska)
Mockett, Florence Emma.	HS.	Lincoln
Mockett, Philip.	SM	(Nebraska)
Mockett, Ralph.	HS.	Lincoln
Mocroft, Velma.	SM	(Nebraska)
Moderow, Arthur Gustavus.	SAs	Stanton
Moffett, Charles.	Ex.	Bloomington
Moffett, Estel.	Ex.	Bloomington
Moffett, Ruth.	Ex.	Bloomington
Mohlman, John Johnson.	Ex.	Nelson
Mohr, William J.	Ex.	Culbertson
Monier, Vivian.	SM	(Nebraska)
Monroe, Mrs. Mabel.	Ex.	Shelton
Montfort, Davida M.	Ex.	Randolph
Montgomery, Bessie.	HS	Raymond
Mook, Milton.	Ex.	Bloomington
Moore, Bryan.	Ex.	Central City
Moore, Elsie.	Ex.	McCook
Moore, Elsie May.	SM	(Nebraska)
Moore, Gladys.	Ex.	Bloomington
Moore, Robert Leo.	SA 2	Decatur
Moore, Ruby.	Ex.	Shelton
Moore, Walter Edwin.	SA 1	Tekamah
Morey, Ethel.	SM	(Oregon)
Morley, Frances.	SM	(Nebraska)
Morley, Grace.	SM	(Nebraska)
Morning, Mildred.	HS.	Lincoln

Morris, Celyn	SA s	Carroll
Morris, Genevieve	SM	(Nebraska)
Morris, Helen	SM	(Nebraska)
Morseman, Edgar M., Jr.	Ex.	Omaha
Mortimer, George Mortimer	SAs	Madison
Mortimer, Thomas McCurdy	SAs	Madison
Mote, Emma Louise	SM	(Nebraska)
Motis, Estella	SM	(Nebraska)
Moyer, Clair Willis	SA 2	Ceresco
Moyer, Mildred	SM	(Nebraska)
Moyer, Vervil Mash	SA 2	Ceresco
Mucklin, Archie	Ex.	Bloomington
Mucklin, Emily	Ex.	Bloomington
Mucklin, Lillian	Ex.	Bloomington
Munson, Alfred Daniel	SM	(Nebraska)
Munson, Carl	HS	Lincoln
Munson, Pearl	SM	(Nebraska)
Murray, Charles Arthur	SA 1	Elwood
Murray, Ethel	SA 2	Elwood
Murray, Laura	Ex.	North Platte
Musser, Henry Barr	SA 2	Loup City
Myer, Anna E.	Ex.	Benson
Myers, Eugene	SM	(Nebraska)
Nagel, Julius Alfred	SA 1	Ithaca
Naughton, Patricia	Ex.	Omaha
Neander, Lottie	Ex.	Aurora
Needham, Emma	HS	Bostwick
Nefsky, Abe	SM	(Nebraska)
Nefsky, Ruth	SM	(Nebraska)
Neiter, Harold Lynn	SM	(Nebraska)
Neiter, John	SM	(Nebraska)
Nelson, Arthur Edwin	SAs	Wahoo
Nelson, Carl Herbert	SA 3	Hooper
Nelson, Clara Hansena	SA 1	Marquette
Nelson, David Edgar	SAu	Lyons
Nelson, Edwin Clark	SA 2	Superior
Nelson, Elmer Owen	SA 1	Cook
Nelson, George Vincent	SAs	Shickley
Nelson, Herbert	SM	(Nebraska)
Nelson, John	SAs	Crofton
Nelson, Joseph Clarence	SA 1	Oakland
Nelson, Leonard Raynold	SA 1	Hooper
Nelson, Mary I.	Ex.	Omaha
Nelson, Petrus Christopher	SAs.	Stromsburg
Newmann, John Henry	(2 yr.) P 2	Lewiston, Mont. (Missouri)
Newell, Edna	SM	Central City
Newmeyer, Mrs. C. F.	Ex.	(Nebraska)
Newton, Harold	SM	Hastings
Nielsen, Harry Osmond	(2 yr.) P 2	Oxford
Nissen, Alfred	Ex.	Aurora
Nissen, Lewis	Ex.	Homer
Nixon, John	SA 3.	Aurora
Noble, Lloyd Raymond	SAs	North Platte
Noland, Shirley Burr	SA 2.	Aurora
Nordeen, Ansel	Ex.	Central City
Nordstead, Mrs. Sten	Ex.	Havelock
Nordstrom, Esther	HS	Havelock
Nordstrom, Lillian	HS	Harvard
North, Carl Edward	SA 1.	Kaycee, Wyo.
Norval, Oliver Gray	SAs	Lincoln
Norvin, Henry	SA 1.	Omaha
Nott, Mrs. Henry	Ex.	Clarkson
Novotny, Jaroslav	SA 2.	Center Point
Novotny, Mary	Ex.	(Nebraska)
Nunemaker, Meda	SM	Clearwater
Nyroy, Ernest C.	Ex.	St. Paul
Oakeson, Nels Olander	SA s.	(Nebraska)
Oehma, Johanna	SM	

## ROSTER OF STUDENTS

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Obert, Carolyn.	SM .	(Kansas)
O'Brien, Helen.	Ex .	McCook
O'Conner, Emerson Grant.	SAs .	Randolph
Offill, Guy Wesley.	SA 2 .	College View
Ohlsen, Winnie Atunia.	SA 3 .	Oakland
Ohlson, Winfield Eugene.	SM .	(Nebraska)
Ohmstede, Bertha.	SM .	(Nebraska)
Olderog, Harry Walter.	SAs .	Gretna
Oline, Harold Edward.	SA 2 .	Lynch
Ollis, Ethel Mary.	SA 3 .	Ord
Ollis, Ruth Eleanor.	SA 2 .	Ord
Olson, Anna.	SM .	(Nebraska)
Olson, Carl Robert.	SAs .	Spencer
Olson, Ruth.	HS .	Lincoln
Olsson, Judith Berniece.	SM .	(Nebraska)
Orlofsky, Goldie.	FA, (S) .	Lincoln
Orr, Raymond.	SM .	(Nebraska)
Osborne, Dean Horace.	SA 3 .	Bayard
O'Sullivan, Eva.	Ex .	Omaha
Otterman, John Fred.	SAs .	Pender
Otto, Homer N.	SA 2 .	Phillips
Otto, Ray Basting.	SA 2 .	Aurora
Ourada, Frank Jim.	SAs .	Overton
Owens, Della.	SM .	(Nebraska)
Owens, Philip.	SM .	(Nebraska)
Owens, Viola Fern.	SM .	(Nebraska)
Oxen, Arla.	Ex .	Oxford
Palmer, Gertrude.	SM .	(Nebraska)
Papez, Emilie Barbara.	SM .	(Nebraska)
Papez, Emma.	SA 3 .	South Omaha
Parks, Bess.	SM .	(Nebraska)
Parks, Harrell Leonard.	SA 3 .	Ord
Parks, Lorna.	SM .	(Nebraska)
Pascoe, Mary.	SA 3 .	Fremont
Pate, W. R.	Ex .	Alliance
Patterson, Jack Myers.	SAs .	Plattsmouth
Pauli, Cora.	Ex .	Shelton
Paulus, Frederick William.	SA 2 .	Inland
Pavey, Harry Charley.	SA 1 .	Wallace
Pearce, Sidney.	SA 2 .	Lincoln
Pearson, Allen.	SM .	(Nebraska)
Pearson, Bessie Leah.	SA 2 .	Walnut
Pearson, Edward Jonas.	SAs .	Genoa
Pearson, Fred Reid.	HS .	Lincoln
Pearson, John Arvid.	SAs .	Ceresco
Pearson, Victor Nels.	SA 1 .	Genoa
Peck, Mrs. George N.	Ex .	Omaha
Pelster, Ed.	SAs .	Petersburg
Pendarvis, Naomi.	SM .	(Nebraska)
Penner, Henry.	SAs .	Hoag
Perrin, Roscoe.	HS .	Roca
Persell, Vada.	Ex .	Bloomington
Peters, Irvin Lloyd.	SAs .	College View
Petersen, Mrs. Anna.	Ex .	Shelton
Peterson, Arthur Lawrence.	SAs .	Valley
Peterson, Daisy Irene.	SM .	(Nebraska)
Peterson, Ernest Linus.	SAs .	Wakefield
Peterson, John.	SM .	(Nebraska)
Peterson, John Howard.	SAs .	Oakland
Peterson, Marie.	Ex .	Bloomington
Peterson, Robert Elmer.	SAs .	Gothenburg
Petrign, George Kimmel.	SA 3 .	Nebraska City
Pettis, Dorothy.	SM .	(Nebraska)
Pettis, Edward.	HS .	Lincoln
Pettygrave, Edward.	Ex .	Oxford
Petty, William.	SM .	(Nebraska)
Philipsen, Moldt Henry.	SA 2 .	Hickman
Phillips, Ella.	Ex .	Aurora

Phillips, Gayle Marie . . . . .	SM . . . . .	(Nebraska)
Phillips, John B. . . . .	SM . . . . .	(Missouri)
Phillips, Omar Delos . . . . .	SA 2 . . . . .	Tecumseh
Phillipson, Victor Reuben . . . . .	SA 2 . . . . .	Holbrook
Pickering, John Philip . . . . .	SA 2 . . . . .	Steelo City
Pickett, E. C. . . . .	Ex . . . . .	Arnold
Picklum, Gladys . . . . .	Ex . . . . .	McCook
Pierce, Everett . . . . .	SM . . . . .	(Nebraska)
Pierce, Gilmore . . . . .	HS . . . . .	Lincoln
Pierce, Mrs. Lela . . . . .	Ex . . . . .	Sheilton
Pilcher, Ruth . . . . .	SM . . . . .	(Illinois)
Pinneo, Nora Grace . . . . .	SM . . . . .	(Nebraska)
Plantz, Bernard D. C. . . . .	SAs . . . . .	Germantown
Plucknett, Walter Harrison . . . . .	SAs . . . . .	DeWitt
Plumer, William Emerson . . . . .	SA 2 . . . . .	Lincoln
Plybon, Walter . . . . .	Ex . . . . .	Milford
Poley, Maude . . . . .	Ex . . . . .	Aurora
Polk, Marguerite . . . . .	HS . . . . .	Lincoln
Polk, Mary . . . . .	HS . . . . .	Lincoln
Pollard, Hall Addison . . . . .	SA 2 . . . . .	Nehawka
Polsky, Libbie . . . . .	SM . . . . .	(Nebraska)
Polsky, Ralph . . . . .	HS . . . . .	Lincoln
Pomazil, Joe . . . . .	SAs . . . . .	Crete
Pomazil, Vclav J. . . . .	SAs . . . . .	Crete
Porter, Esteline . . . . .	Ex . . . . .	Oxford
Porter, William Virgil . . . . .	SA 1 . . . . .	Lincoln
Poska, Sidney . . . . .	HS . . . . .	Lincoln
Posson, Melancthon Brahan . . . . .	SA 1 . . . . .	Eureka
Posson, Rutherford Jay . . . . .	SA 3 . . . . .	Eureka
Pothast, Edith Marie . . . . .	SM . . . . .	(Nebraska)
Potter, Mrs. Philip . . . . .	Ex . . . . .	Omaha
Potter, Ward Stanley . . . . .	SA 1 . . . . .	Wilcox
Powers, Hildegarde . . . . .	HS . . . . .	Lincoln
Pratt, Francis . . . . .	HS . . . . .	Lincoln
Presnell, Ernest . . . . .	HS . . . . .	College View
Preston, Camilla May . . . . .	SM, FA . . . . .	Lincoln
Preston, Millie . . . . .	SM . . . . .	(Nebraska)
Price, Frederick Homer . . . . .	Ex . . . . .	Tilden
Priest, Herbert . . . . .	HS . . . . .	Normal
Priest, James . . . . .	HS . . . . .	Normal
Prokop, Joseph . . . . .	SAs . . . . .	Wilber
Proper, Verne E. . . . .	Ex . . . . .	Nebraska City
Proper, Winona O. . . . .	Ex . . . . .	Beatrice
Prouty, Harrie Montrose . . . . .	(2 yr.) P 2 . . . . .	Lincoln
Prouty, Mrs. Martha . . . . .	Ex . . . . .	Shelton
Prycke, Mrs. Julius . . . . .	Ex . . . . .	Omaha
Ptack, Anton Louis . . . . .	SAs . . . . .	David City
Puch, Harry Donald . . . . .	SM . . . . .	(Nebraska)
Purington, Vivian . . . . .	Ex . . . . .	Bloomington
Pyrtle, Ruth . . . . .	SM . . . . .	(Nebraska)
Quackenbush, Mary E. . . . .	Ex . . . . .	Omaha
Quick, William . . . . .	SM . . . . .	(Nebraska)
Quinn, Mary . . . . .	Ex . . . . .	Oxford
Quivey, Lynn Arthur . . . . .	Ex . . . . .	Cozad
Roasch, Darius Paul . . . . .	SAs . . . . .	Norfolk
Randall, Nelle . . . . .	Ex . . . . .	Omaha
Rankin, Eda L. . . . .	SM . . . . .	(Nebraska)
Rankin, Hobart . . . . .	Ex . . . . .	Oxford
Rankin, Maude . . . . .	Ex . . . . .	Oxford
Rash, Guy . . . . .	Ex . . . . .	Central City
Rash, Roy . . . . .	Ex . . . . .	Central City
Rasmussen, Henry Hans . . . . .	SAs . . . . .	Herman
Ratcliffe, Mrs. F. C. . . . .	Ex . . . . .	Central City
Rathje, Julius John . . . . .	SAs . . . . .	Rising City
Raw, Lucile Mara . . . . .	SM . . . . .	(Nebraska)
Rawlings, Gladys . . . . .	SM . . . . .	(Nebraska)
Rayner, Mabelle . . . . .	SM . . . . .	(Nebraska)
Rebuck, Floyd . . . . .	HS . . . . .	Lincoln

Reddington, Mrs. Nellie.	Ex.	Shelton
Redfern, D. L.	SM	(Nebraska)
Redfern, Florence.	SM	(Nebraska)
Redfield, Jennie L.	Ex.	Omaha
Reed, Bessie.	SM	(Kansas)
Reed, Earl Vernet	FA.	Lincoln
Reed, Floyd.	Ex.	Milford
Reed, Frank	Ex.	Milford
Reed, Gertrude.	Ex.	Milford
Reed, Glenn Hobart.	SA 2.	Raymond
Reed, Marian Etta.	SM	(Nebraska)
Reed, Marjorie.	SM	(Nebraska)
Reed, Mary Magdalene	SM	(Nebraska)
Reed, Wauneta.	Ex.	Shelton
Rees, William H.	SA 1.	Carroll
Reese, Marjorie.	SM	(Nebraska)
Reetz, Fred Virgil.	SAs	Bloomfield
Reeves, Delle M.	SM	(Nebraska)
Reimund, Francis Scott.	Ex.	Crawford
Reimund, H. H.	Ex.	Crawford
Reith, Lelia M.	SM	(Nebraska)
Reinsch, John Frederick.	SAs	Ong
Remley, Iva.	Ex.	Bloomington
Renard, Edward John.	SA 1.	Arlington
Renard, Estella.	SM	(Nebraska)
Rennar, Fred Stephen.	SA 2.	Omaha
Rennar, Harry.	SAs	Howells
Rerucha, John Andrew.	SAs	Bruno
Rerucha, John Cyril.	SAs	Bruno
Reynolds, Emmett.	Ex.	Bloomington
Rice, Nettie Irene.	SM	(Nebraska)
Rice, William Gramlich	SA 2.	Bridgeton, N. J.
Rich, Lewis Allen.	SAU.	College View
Richards, Helen.	SA 1.	Lincoln
Richards, Mary Louise.	SM	(Nebraska)
Richardson, Mary.	SM	(Nebraska)
Richardson, Maurice.	SM	(Nebraska)
Richardson, Nannie F.	Ex.	Omaha
Richardson, William	SM	(Nebraska)
Richey, Harry Wyatt	SA 3.	Omaha
Richtarik, William Vancil.	SAs	Wilber
Ridder, Henry.	SAs	Calloway
Rief, William John.	SAs	Grand Island
Rieth, Pauline K.	Ex.	Council Bluffs, Iowa
Riley, Ed Lutchion.	SA 2.	Kansas City, Mo.
Ring, Susanne Candace.	SA 2.	Cheney
Ringwalt, Mrs. John.	Ex.	Omaha
Ripley, George Henry.	SA 1.	Aladdin, Wyo.
Risdon, Sarah.	HS, SM	Lincoln
Robb, A. Jeff C.	SAs	Lincoln
Robbins, Wilford Milo.	SAs	Kearney
Roberts, Arthur Lester.	SA 3.	Joy
Roberts, Fay.	HS	West Lincoln
Roberts, George Lewis.	SA 1.	Lincoln
Roberts, Mabel.	Ex.	Central City
Roberts, Martha.	Ex.	Central City
Roberts, Thomas Griffith.	SAs	Cedar Bluffs
Roberts, Walter Freeman.	SA 1.	Joy
Robertson, Hans Adolph.	SAs	Mason City
Robinson, Frank.	Ex.	Bloomington
Robinson, Jay.	SA 3.	Joy
Robins on, Olgie.	Ex.	Central City
Rocke, Herbert.	SAs	Atkinson
Rockfellow, Pearl.	Ex.	Omaha
Rodaway, Ethel.	SA 2.	Unadilla
Rodekohr, Edwin Charles.	SAs	Battle Creek
Rodekohr, Lewis Henry.	SAs	Battle Creek
Roe, Benjamin Cattle.	SA 2.	Omaha

Rogers, Mrs. Warren.....	Ex.....	Omaha
Rogers, Wilber Anthony.....	SA 2.....	Ord
Rogge, Willis.....	SA 3.....	Sterling
Rogosch, Carl Frederick.....	(2 yr.) P 2.....	Ponca
Rohman, Essabell.....	FA.....	Lincoln
Rohwer, Mamie.....	SM.....	(Nebraska)
Roland, Maud.....	FA.....	Lincoln
Rolfs, Frank Herman.....	SAs.....	Grafton
Rolofson, Lawrence Owen.....	SA 3.....	Lincoln
Rood, Grace.....	SM.....	(Nebraska)
Rooney, Ellen.....	Ex.....	Omaha
Rose, Genevieve.....	SM.....	(Nebraska)
Rose, Rosa.....	Ex.....	Oxford
Rosenberg, Chris P.....	SM.....	(Nebraska)
Rosengren, Matilda.....	SM.....	(Nebraska)
Rosicky, Emma.....	Ex.....	Omaha
Roth, Paul.....	SAs.....	Tekamah
Rothwell, Hazel.....	HS.....	Lincoln
Rouse, Bessie.....	SM.....	(Nebraska)
Rouse, Eugene.....	SM.....	(Nebraska)
Rouse, Margaretta.....	SM.....	(Nebraska)
Rouse, Matilda.....	SM.....	(Nebraska)
Rowley, Clifford George.....	SA 1.....	Hampton
Roy, Edwin Earl.....	SA 2.....	Lincoln
Royce, Floy.....	HS.....	Lincoln
Rozanek, Fred Joseph.....	SAs.....	Milligan
Rudd, Helen Morgan.....	SM.....	(Nebraska)
Rue, Hattie.....	SM.....	(Nebraska)
Ruetter, Henry Ernest.....	SA 1.....	Wabash
Ruhuka, Gertrude.....	Ex.....	Pierce
Runell, Mrs. C. W.....	Ex.....	Omaha
Rush, Beulah.....	HS.....	Lincoln
Rush, Roma.....	HS.....	Lincoln
Russell, Carrie.....	Ex.....	Odell
Russell, Harry A.....	SAs.....	Albion
Russell, Letta.....	SM.....	(Nebraska)
Russell, Reva Laura.....	SM.....	(South Dakota)
Rutledge, Helen.....	Ex.....	Bloomington
Ryons, Dorothy.....	SM.....	(Nebraska)
Ryons, Jessie.....	FA.....	Lincoln
Sall, Minnie D.....	Ex.....	Lawrence
Samuelson, Arvid.....	SM.....	(Nebraska)
Samuelson, Mabel.....	SM.....	(Iowa)
Sanborne, Sarah Minier.....	Ex.....	Omaha
Sandstrom, Lottie Christine.....	SA 1.....	Ceresco
Sanford, Dorothy.....	HS.....	Lincoln
Sanford, Genevieve.....	HS.....	Lincoln
Sanford, Josephine.....	SM.....	(Nebraska)
Sarnes, Charles.....	HS.....	Lincoln
Sasek, Sylvia.....	SM.....	(Nebraska)
Satchwell, Jesselyn.....	SM.....	(Nebraska)
Sautter, Henry Edward.....	SAs.....	Scotia
Sautter, Louis Michael.....	SAs.....	Scotia
Savage, Warren Curtis.....	SA 1.....	Spalding
Saville, Jay.....	SM.....	(Nebraska)
Schaer, Amelia Emma.....	SM.....	(Nebraska)
Schegg, Helen.....	Ex.....	Bloomington
Schinzel, Norma.....	SM.....	(Nebraska)
Schlegel, Elmer.....	SAs.....	Marquette
Schlückbernd, Henry August.....	SAs.....	Beemer
Schmidt, Carl John.....	SAs.....	Blair
Schmidt, Elizabeth.....	Ex.....	Wolbach
Schmidt, Herbert.....	SM.....	(Nebraska)
Schoenbeck, Helen Mary.....	SA 2.....	Odell
Schongel, Francis.....	Ex.....	Bloomington
Schroeder, Mary Catherine.....	SM.....	(Nebraska)
Schubert, Carrie Theresa.....	SA 1.....	Atkinson
Schwab, Harold.....	Ex.....	McCook

## ROSTER OF STUDENTS

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Schwab, Helen . . . . .	Ex.		McCook
Schwake, Frank Whitten . . . . .	(2 yr.) P 2		Nebraska City (Nebraska)
Schwindt, John . . . . .	SM		Omaha
Scobie, Helen . . . . .	Ex.		Lincoln
Scofield, Irene . . . . .	SA 1		Lincoln
Scofield, James Norman . . . . .	SA 2		Lincoln
Scofield, John Howard . . . . .	SA 1		Lincoln
Scott, Harry . . . . .	SAs		Palisade
Scott, Mrs. J. C. . . . .	Ex.		Central City
Scott, William Henry . . . . .	SA 1		Lincoln
Scroggin, Mable Travis . . . . .	SA 1		Kearney
Seacrest, Jessie . . . . .	SM		(Nebraska)
Sears, Gula . . . . .	Ex.		Decatur
Sedlacek, Anton . . . . .	SM		(Kansas)
Seidel, Julius Martin . . . . .	SM		(Nebraska)
Seidel, Paul . . . . .	SM		(Nebraska)
Seiffert, Bertha . . . . .	SM		(Nebraska)
Seitz, Clyde . . . . .	HS		Lincoln
Selander, Grace . . . . .	SM		(Iowa)
Sell, Albert Emil . . . . .	SA 2		Milford
Sellon, Roy Gregg . . . . .	SAs		Randolph
Seymour, Eleanor . . . . .	SM		(Nebraska)
Seymour, Victoria . . . . .	SM		(Nebraska)
Shallenberger, Grace Pauline . . . . .	SM		(Nebraska)
Shanafelt, Luella Edna . . . . .	SM		(Nebraska)
Sharp, Willard . . . . .	Ex.		Bloomington
Sharpnack, Esta . . . . .	SM		(Nebraska)
Shearer, Clarice Miriam . . . . .	SM		(Colorado)
Sheffield, Harriette . . . . .	SM		(Nebraska)
Shelden, Bess . . . . .	SM		(Nebraska)
Shelton, Eva . . . . .	Ex.		Bloomington
Shephard, Gertrude . . . . .	Ex.		McCook
Shephard, James Frederick . . . . .	SA 2		Fremont
Shepherd, Garnet Lee . . . . .	SAs		Elgin
Shepherd, Helen . . . . .	HS		Lincoln
Shields, Maxine Ruth . . . . .	SM		(Iowa)
Shields, Lora . . . . .	Ex.		Omaha
Shipley, Pearl . . . . .	SM		(Nebraska)
Shively, Clara . . . . .	Ex.		Bloomington
Shively, Grace . . . . .	Ex.		Bloomington
Shoemaker, Leo . . . . .	SM		(Nebraska)
Shostak, Louis . . . . .	SM		(Nebraska)
Siegel, Frederick . . . . .	Ex.		Bloomington
Siegrist, Florence Elenor . . . . .	SA 1		Ceresco
Simon, Joseph . . . . .	HS		Lincoln
Simpson, Anna Ray . . . . .	SM		(California)
Simpson, Eleanora . . . . .	SM		(Nebraska)
Sinclair, John Wesley . . . . .	SAs		Lincoln
Sindt, Henry . . . . .	SA 3		Naponee
Sindt, Carl . . . . .	SA 3		Naponee
Sjogren, John William . . . . .	SA 2		Funk
Skinner, C. J. . . . .	Ex.		Berlin
Sklenar, Rose . . . . .	SA 1		Weston
Skudrna, Anton W. . . . .	SAU		(Nebraska)
Slater, Florence . . . . .	SM		(Nebraska)
Sloan, Floyd Andrew . . . . .	SAs		Lewiston
Smith, A. Roy . . . . .	Ex.		Culbertson
Smith, Alice . . . . .	SM		(Nebraska)
Smith, Anna . . . . .	SM		(Nebraska)
Smith, Blanche Jean . . . . .	SM		(Nebraska)
Smith, Charles Ray . . . . .	SA 2		Culbertson
Smith, Mrs. Evan . . . . .	Ex.		Shelton
Smith, Harrison . . . . .	Ex.		Central City
Smith, Jane Sprott . . . . .	Ex.		Omaha
Smith, Mrs. Kate . . . . .	Ex.		Shelton
Smith, Julia . . . . .	Ex.		Central City
Smith, Jessie . . . . .	Ex.		Shelton
Smith, Mary A. . . . .	SM		(Nebraska)

Smith, Maude.	Ex.	Bloomington
Smith, May.	Ex.	Bloomington
Smith, Nelson.	SAs.	Norman
Smith, Penelope M.	Ex.	Omaha
Smith, Ralph Clayton.	HS, SAs	Lincoln
Smith, Roscoe A.	SM	(Nebraska)
Smith, Roy.	Ex.	Bloomington
Smith, Mrs. William Archibald.	Ex.	Omaha
Snader, Louie.	SM	(Nebraska)
Snyder, Charles Russell.	SA 2.	Loup City
Snyder, Jay D.	SM	(Iowa)
Sohlberg, Joseph Emmanuel.	(2 yr.) P 2.	Oakland
Soucek, Ernest Joseph.	SAs	Walnut
Sowder, Mrs. Vivian.	SM	(Nebraska)
Sparks, Helen.	SM	(Nebraska)
Sparling, Clarence.	SA 2.	Cook
Spearman, Lela A.	Ex.	Whitney
Spencer, Lauretta.	SM	(Nebraska)
Splittgerber, Gus Julius.	SAs	Wayne
Sprecher, G. T.	Ex.	Norfolk
Springer, Merlin.	Ex.	Oxford
Stahl, Vena Eliza.	SM	(Nebraska)
Starrett, Mrs. S. B.	Ex.	Central City
Stebbins, Mrs. C. S.	Ex.	Omaha
Stebbins, Mrs. Ida.	Ex.	Shelton
Stebbins, Eunice.	Ex.	Omaha
Stebbins, Rosina.	Ex.	Shelton
Steckelberg, Anna.	Ex.	Plymouth
Steenberg, Kenneth.	SM	Aurora
Stelzer, Anita.	SAs	(Nebraska)
Stender, Nels Marions.	SAs	Mason City
Stenger, Roy Earl.	SAs	St. Paul
Stenzel, Louis.	SAs	Genoa
Stepanek, Grace.	SM	(Nebraska)
Stephens, Frederick Henry.	SAs	Lawrence
Stephens, Lillian.	Ex.	Central City
Stevens, Leslie.	SM	(Nebraska)
Stevens, Sylvia Grace.	SM	(Nebraska)
Stewart, Aurora Day.	SM	(Nebraska)
Stewart, Irville Morton.	SA 2.	Lincoln
Stewart, Isabel.	SM	(Kansas)
Stewart, Ora.	Ex.	McCook
Stimpson, Ina.	Ex.	Shelton
Stockfield, Edward.	HS.	Lincoln
Stoddard, Lois.	SA 1.	Auburn
Stoddard, Paxton Calladay.	SA 3.	Lincoln
Stoetzel, Georgia.	Ex.	Central City
Stoltnow, Martha J.	Ex.	Benson
Stone, Clarence.	SM	(Nebraska)
Storm, Ruth.	HS.	Lincoln
Story, Georgia.	Ex.	Aurora
Stout, Charles Oscar.	HS.	Lincoln
Stout, H. G.	Ex.	Sumner
Stratton, Lovena.	SM	(Nebraska)
Strand, Mrs. Estella.	Ex.	Shelton
Streeter, Lenore.	HS.	Lincoln
Streitz, William Michael.	SA 3.	Millard
Strickler, Addie.	SM	(Nebraska)
Strine, Hilda.	Ex.	Oxford
Stringfellow, Clare Dewitt.	SAs	Oakdale
Stroh, Kate.	SM	(Nebraska)
Stron, Emil.	SAs	Randolph
Strong, Margie.	Ex.	Bloomington
Strope, Merwin Garvin.	SA 3.	Venus
Strope, William Wallace.	SA 3.	Venus
Strubbe, Henry.	SA 1.	Central City
Sutton, Anna May.	SA 1.	Wahoo
Sutton, Ellen Ely.	SA 1.	Wahoo

## ROSTER OF STUDENTS

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Svec, Frank Adolph . . . . .	SAs . . . . .	Howells . . . . .
Svoboda, Marie . . . . .	SM . . . . .	(Nebraska)
Swan, Grace Victoria . . . . .	SM . . . . .	(Iowa)
Swanson, Alfred Nels . . . . .	SAs . . . . .	Randolph
Swanson, Archibald Carl . . . . .	SA3 . . . . .	Aurora
Swanson, Garfield Harrison . . . . .	SAs . . . . .	Oakland
Swanson, Lydia . . . . .	Ex. . . . .	Aurora
Swanson, Philbert Oscar . . . . .	SA 2 . . . . .	Funk
Swartsley, Oscar Eugene . . . . .	SAs . . . . .	Riverdale
Swingle, Calvin Lamar . . . . .	SA 1 . . . . .	Lincoln
Swingle, George . . . . .	HS. . . . .	Lincoln
Sydow, Morris Robert . . . . .	SA 1 . . . . .	Trenton
Talbert, Mrs. E. F . . . . .	Ex. . . . .	Central City
Talbot, Robert . . . . .	H. S. . . . .	Lincoln
Tanner, Albert . . . . .	SM . . . . .	(Nebraska)
Tanner, Neola . . . . .	SM . . . . .	(Nebraska)
Taylor, Alma F . . . . .	SM . . . . .	(Nebraska)
Taylor, Edith . . . . .	SM . . . . .	(Louisiana)
Taylor, Jean E . . . . .	SM . . . . .	(Nebraska)
Taylor, John . . . . .	Ex. . . . .	Bloomington
Taylor, Leonard Burke . . . . .	SA 3 . . . . .	Aurora
Taylor, Loren Guy . . . . .	(3 yr.) P 3 . . . . .	Clay Center
Taylor, Marguerite . . . . .	SM . . . . .	(Nebraska)
Taylor, Sara . . . . .	Ex. . . . .	South Omaha
Taylor, Tena . . . . .	SM . . . . .	(Nebraska)
Temple, Lee . . . . .	HS, SM . . . . .	Hallam
Tesch, Ruby . . . . .	SM . . . . .	(Nebraska)
Thatcher, Charles Paul . . . . .	SA 2 . . . . .	University Place
Thelen, William John . . . . .	SAs . . . . .	Shelby
Thieroff, Mina . . . . .	SM, FA . . . . .	Plattsmouth
Thomas, Fairy . . . . .	SM . . . . .	(Nebraska)
Thomas, Helen Louise . . . . .	SA 1 . . . . .	Lincoln
Thomas, Mamie . . . . .	SM . . . . .	(Nebraska)
Thomas, Nathan . . . . .	SM . . . . .	(Nebraska)
Thomas, Rita . . . . .	SM . . . . .	(Nebraska)
Thompson, Alice Evangeline . . . . .	SM . . . . .	(Nebraska)
Thompson, Benjamin Harrison . . . . .	SM . . . . .	Lincoln
Thompson, Charles William . . . . .	SA 2 . . . . .	Newark, N. J.
Thompson, Francis . . . . .	HS. . . . .	Bloomington
Thompson, Lee William . . . . .	Ex. . . . .	Lincoln
Thornberg, Helen . . . . .	SA 1 . . . . .	Oxford
Thorpe, Louis . . . . .	SM . . . . .	(Nebraska)
Thorpe, Berta Florence . . . . .	SM . . . . .	(Nebraska)
Thrailkill, Frank Leonard . . . . .	(2 yr.) P 2 . . . . .	Broken Bow
Thrapp, Elmo . . . . .	(2 yr.) P 2 . . . . .	Litchfield
Thurber, Alleyene Newman . . . . .	SA 2 . . . . .	Ulysses
Thurline, Charles . . . . .	SA 1 . . . . .	Lincoln
Thuston, Verna . . . . .	Ex. . . . .	Oxford
Timmons, Otto Salathiel . . . . .	SM . . . . .	(South Dakota)
Todd, Harold Hart . . . . .	SAs . . . . .	Ashland
Tonek, Helen A . . . . .	SM . . . . .	(Missouri)
Tonjes, George Frederick . . . . .	SM . . . . .	(Nebraska)
Toogood, Bertha Elizabeth . . . . .	SAs . . . . .	Pender
Torbitt, Zoe . . . . .	SM . . . . .	(Nebraska)
Toren, Esther . . . . .	SM . . . . .	(Nebraska)
Towle, Mary Katherine . . . . .	SM . . . . .	(Nebraska)
Towle, Priscilla . . . . .	SM . . . . .	(Nebraska)
Towne, Jessie . . . . .	Ex. . . . .	Omaha
Tracy, Alma . . . . .	SM . . . . .	(Nebraska)
Tracy, June . . . . .	SM . . . . .	(Nebraska)
Trester, Alice . . . . .	SM . . . . .	(Nebraska)
Tritt, Mildred . . . . .	Ex. . . . .	Shelton
Tromfen, Marie Jane . . . . .	SM . . . . .	(Nebraska)
Trott, Marie . . . . .	SA 1 . . . . .	Lincoln
Trotter, Harley Elijah . . . . .	SA 2 . . . . .	Spalding
Troup, Ramona . . . . .	HS. . . . .	Lincoln
Trout, Lulu Zella . . . . .	SM . . . . .	(Nebraska)
Troxel, June . . . . .	SM . . . . .	(Nebraska)

Troyer, Robert . . . . .	SM . . . . .	(Nebraska)
Tucker, Jennie Doty . . . . .	SM . . . . .	(Nebraska)
Tukey, Ethel N . . . . .	Ex. . . . .	Omaha
Tupper, Oscar Winters . . . . .	SA 3 . . . . .	Riverton
Turner, Darrena . . . . .	SM . . . . .	(Nebraska)
Turner, Marion . . . . .	FA . . . . .	Lincoln
Turnquist, Ida Eleanor . . . . .	SM . . . . .	(Nebraska)
Turton, Leona . . . . .	Ex. . . . .	Shelton
Tyson, Edwin . . . . .	SA 3 . . . . .	Mound City, Mo.
Ubl, Joseph Lumin . . . . .	HS . . . . .	Prague
Uffelmann, Arnold William . . . . .	SAs . . . . .	Waco
Uhl, Benjamin . . . . .	HS . . . . .	Lincoln
Upton, Vera Augusta . . . . .	SM . . . . .	(Nebraska)
Urban, Rose . . . . .	SA 1 . . . . .	Newboro
Ure, Emma J . . . . .	Ex. . . . .	Omaha
Urwiller, Laura . . . . .	Ex. . . . .	Shelton
Utter, Vera . . . . .	Ex. . . . .	Shelton
Vance, Irma . . . . .	Ex. . . . .	Doniphan
Van Derzee, Ruth Elizabeth . . . . .	SM . . . . .	(Nebraska)
Van Osdol, Otto Wayne . . . . .	SAs . . . . .	North Loup
Van Tuyl, Abbie Eva . . . . .	SM . . . . .	(Nebraska)
Vedene, Laura . . . . .	Ex. . . . .	Shelton
Vian, Theodore Samuel . . . . .	SA 2 . . . . .	Vian
Victor, Glen Gifford . . . . .	SA 1 . . . . .	Wilcox
Vierson, Minnie . . . . .	Ex. . . . .	McCook
Vincent, Delsie . . . . .	SM . . . . .	Milford
Vogel, Carl Jacob . . . . .	SAs . . . . .	Clarkson
Vollmer, Henry Joseph . . . . .	SAs . . . . .	Petersburg
Vorhees, Edson . . . . .	HS . . . . .	Lincoln
Wachter, Leona Marie . . . . .	SM . . . . .	(Nebraska)
Wacks, Carrie . . . . .	Ex. . . . .	Oxford
Wade, Bernice . . . . .	SA 2 . . . . .	Rising City
Wagner, Charlotte C . . . . .	SM . . . . .	(Nebraska)
Wagner, Frank Anthony . . . . .	SAs . . . . .	Lindsay
Wallburn, John Edgar . . . . .	(2 yr.) P 1 . . . . .	Endicott
Walker, Charles . . . . .	Ex. . . . .	Bloomington
Walker, Daisy . . . . .	SM . . . . .	(Nebraska)
Walker, Earl Fisk . . . . .	(2 yr.) P, (S) . . . . .	Stockham
Walker, Hubert Edward . . . . .	SAs . . . . .	Franklin
Walker, Pearl Frances . . . . .	SM . . . . .	(Nebraska)
Wall, Pearl . . . . .	SM . . . . .	(Nebraska)
Walla, Emil . . . . .	SAs . . . . .	Linwood
Walline, Carl Axel Verner . . . . .	SA 1 . . . . .	Funk
Walt, Mary Ward . . . . .	SM . . . . .	(Nebraska)
Walton, Martha . . . . .	SM . . . . .	(Nebraska)
Ward, Gertrude . . . . .	SM . . . . .	(Nebraska)
Ward, Lillian . . . . .	SM . . . . .	(Nebraska)
Warga, Helen . . . . .	Ex. . . . .	Ericson
Warner, Blanche . . . . .	SAs . . . . .	Alexandria
Warnock, Warren Alfred . . . . .	HS . . . . .	Lincoln
Warren, Clarence . . . . .	HS . . . . .	Lincoln
Warren, Pauline . . . . .	Ex. . . . .	Bloomington
Warring, Ada . . . . .	Ex. . . . .	Western
Watenaugh, Henry D . . . . .	Ex. . . . .	Aurora
Watenaugh, Marion . . . . .	SM . . . . .	(Nebraska)
Waters, Alice Bradford . . . . .	SM . . . . .	(Nebraska)
Waters, Asa Bradford . . . . .	SM . . . . .	Lincoln
Watkins, Marion . . . . .	HS . . . . .	McCook
Watson, Florence . . . . .	Ex. . . . .	Buffalo, Wyo.
Watt, David James . . . . .	SAs . . . . .	Buffalo, Wyo.
Watt, Robert Cameron . . . . .	SM . . . . .	(Nebraska)
Wattles, Grace Mary . . . . .	SM . . . . .	(Nebraska)
Weagant, Florence . . . . .	SAs . . . . .	Arapahoe
Weatherwax, Floyd Guy . . . . .	SM . . . . .	(Nebraska)
Webb, Helen Mae . . . . .	SM . . . . .	(Nebraska)
Webber, Emma . . . . .	SM . . . . .	(Nebraska)
Webber, Richard C . . . . .	SM . . . . .	(Nebraska)
Webster, Gladys . . . . .	SM . . . . .	

Weeks, David P.	Ex.	Lincoln
Weinberg, Carolyn	SM	(Nebraska)
Weinberg, Henrietta	SM	(Nebraska)
Weinberg, Myron L.	SM	(Nebraska)
Weinert, Henry Christopher	SAs	Rulo
Welder, Pearl	Ex.	Central City
Weller, Helen	SA 2	Seward
Wells, Charles Edward	SA 1	Lincoln
Wells, Ella Mable	SM	(Nebraska)
Wemple, Marietta Matteson	SM	(Nebraska)
Wentz, Harry Maurice	SA 3	Lincoln
Wentz, Lawrence Eugene	SA 1	Lincoln
Wertman, Maude M.	SM	(Nebraska)
West, Helene	Ex.	Syracuse
West, Mabel Kathryn	SM	Lincoln
West, Roland Smith	SAs	Berwyn
West, Viola	SM	(Nebraska)
Westover, Helen	SM	(Nebraska)
Wetzel, Marie C.	Ex.	Omaha
Whaley, Minor Hill, Jr.	(2 yr.) P 2	Lincoln
Wheaton, Walter	Ex.	Bloomington
Wheeler, Addie Louise	SA 1	Lincoln
Whisenand, Wilmer James	SA 3	Harvard
Whisler, Pearl	SM	(Nebraska)
White, Bonita	HS	Lincoln
White, Paul	HS	Lincoln
Whitehorn, Dwight Oliver	SAs	University Place
Whitehorn, May	FA	University Place
Whitford, Mrs. John	Ex.	Shelton
Whitmore, Eva	SM	(Nebraska)
Whitmore, Roland Monroe	SA 2	Elgin
Whittaker, Winnifred	HS	Lincoln
Wickland, Duane Ernest	SAs	Valley
Wickland, Ethel Ruth Alice	SM	(Nebraska)
Wickstrum, Agnes Julius	SM	(Nebraska)
Wiebe, Gerhard R.	SAs	Beatrice
Wiederspan, Jacob J.	SM	(Nebraska)
Wiese, Hertha	SM	(Iowa)
Wilcox, Allison Wesley	SA 3	North Platte
Wilcox, Frank Luther	SA 3	Arborville
Wilcox, John Cleland	SAs	Morse Bluff
Wilcox, Lemuel Roy	SA 1	Arborville
Wildish, Florence	Ex.	Aurora
Wileman, Ruth	SA 1	Bethany
Wiles, Lewis William	SA 2	Syracuse
Wilkenson, Henry James	SA 2	Lincoln
Wilkey, Esta	HS	Smithfield
Williams, Bertha Alice	SM	(Nebraska)
Williams, Charley Arthur	SA 1	Eaton, Colo.
Williams, Dorothy	SM	(Nebraska)
Williams, Mrs. E. B. O.	Ex.	Wahoo
Williams, Estella F.	SM	(Nebraska)
Williams, James Edwin	HS	Raymond
Williams, Jay	SM	(Nebraska)
Williams, Merle Everett	SAs	Stromsburg
Wilson, Charles E.	FA, (S)	Lincoln
Wilson, Florence	Ex.	McCook
Wilson, Leona	HS	Normal
Wiltamuth, Ida Mae	SM	(Nebraska)
Winters, Rose Aldine	FA, (S)	Lincoln
Wisner, Hannah M.	Ex.	Aurora
Withers, Gladys	SM	(Nebraska)
Withrow, Taylor	Ex.	Central City
Witte, Henry	HS	Swanton
Wittmann, Robert Joseph	SA 3	Lincoln
Wocott, Loa	Ex.	Central City
Wolmsley, Ethel	Ex.	Omaha
Wolverton, Margaret	Ex.	Shelton

## THE UNIVERSITY OF NEBRASKA

Wolvon, Raymond . . . . .	SAs . . . . .	Utica
Wood, Fannie Lyon . . . . .	SA 2 . . . . .	Lincoln
Wood, Leota Powell . . . . .	FA . . . . .	Lincoln
Wood, Wilber Sylvester . . . . .	(3 yr.) P 3 . . . . .	Lincoln
Woodard, William Edgar . . . . .	SAs . . . . .	Hebron
Woodruff, Marguerite . . . . .	SM . . . . .	(Nebraska)
Woods, Ethel . . . . .	SM . . . . .	(Nebraska)
Woods, Frederick Pace . . . . .	SA 1 . . . . .	Lincoln
Wooley, Edna . . . . .	SM . . . . .	(Nebraska)
Work, Gladys . . . . .	Ex. . . . .	Aurora
Work, Kenneth Elwin . . . . .	SA 2 . . . . .	Litchfield
Workmann, Nettie D. . . . .	SM . . . . .	(Nebraska)
Wright, Mrs. C. C. . . . .	Ex. . . . .	Omaha
Wright, Edna Louise . . . . .	SM . . . . .	(Nebraska)
Wright, George . . . . .	Ex. . . . .	Aurora
Wright, Ione . . . . .	HS . . . . .	Lincoln
Wright, Lois . . . . .	Ex. . . . .	Aurora
Wright, Otis Wesley . . . . .	SA 1, SAs . . . . .	Filley
Yates, Gertrude A. . . . .	SM . . . . .	(Nebraska)
Yates, Lewis . . . . .	SM . . . . .	(Nebraska)
Yeast, Ruth . . . . .	HS . . . . .	Lincoln
Yeck, Flossie . . . . .	SM . . . . .	(Nebraska)
Yensen, Joseph Harden . . . . .	SA 2 . . . . .	Lowell
Yocum, Mary . . . . .	Ex. . . . .	Bloomington
Yocum, Nettie . . . . .	Ex. . . . .	Bloomington
Yont, Lily . . . . .	FA . . . . .	Lincoln
Young, Achsah . . . . .	HS . . . . .	Lincoln
Young, Charles . . . . .	Ex. . . . .	Bloomington
Young, George Wallace . . . . .	SAs . . . . .	Comstock
Young, Henry . . . . .	HS . . . . .	Utica
Young, Mildred Olivia . . . . .	(2 yr.) P 1 . . . . .	Lincoln
Young, Wesley . . . . .	Ex. . . . .	Bloomington
Younglund, Amelia E. . . . .	SM . . . . .	(Nebraska)
Younglund, Anton Edward . . . . .	SAs . . . . .	Stromsburg
Zabel, Clara . . . . .	SM . . . . .	(Nebraska)
Zavel, Irvin Chalion . . . . .	SA 2 . . . . .	Lincoln
Zeller, Florence Lucile . . . . .	SA 2 . . . . .	Sioux City, Iowa
Zerfing, Irmal Elizabeth . . . . .	SM . . . . .	(South Dakota)
Zerver, Byron . . . . .	SM . . . . .	(Nebraska)
Zinn, Zola . . . . .	Ex. . . . .	Bruno

1910—1911

## SUMMARY OF STUDENTS IN THE COLLEGES

	Men	Women	Total
The Graduate College.....	117	92	209
The College of Arts and Sciences			
Fourth Year.....	82	61	
Third Year.....	92	80	
Second Year.....	125	132	
First Year.....	198	152	
Indeterminate Class Rank.....	13	37	
Unclassified.....	32	151	
	542	613	1155
The Teachers College			
Fourth Year.....	5	69	
Third Year.....	6	47	
Second Year.....	11	62	
First Year.....	12	98	
Indeterminate Class Rank.....	44	158	
Unclassified.....	1	20	
	79	454	533
The College of Engineering			
Fourth Year.....	60	..	
Third Year.....	71	..	
Second Year.....	103	..	
First Year.....	161	..	
Unclassified.....	17	..	
	412	..	412
The College of Agriculture			
Fourth Year.....	13	8	
Third Year.....	22	11	
Second Year.....	42	18	
First Year.....	64	38	
Unclassified.....	9	22	
	150	97	247
The College of Law			
Third Year.....	55	..	
Second Year.....	54	..	
First Year.....	141	..	
Unclassified.....	9	..	
	259	..	259
The College of Medicine			
Doctor of Medicine <i>cum laude</i> .....	8	..	
Fourth Year.....	9	1	
Third Year.....	9	..	
Second Year.....	20	1	
First Year.....	29	3	
Unclassified.....	22	1	
Second Year, Six-Year Combined Course.....	20	..	
First Year, Six-Year Combined Course.....	39	3	
	156	9	165
Grand Total (Men, 1715; Women, 1265).....			2980
Deduct for repeated names (Men, 129; Women, 12).....			141
Total Registration (Men, 1586; Women, 1253).....			2839

**SUMMARY OF STUDENTS IN THE SCHOOLS AND IN THE  
DEPARTMENT OF UNIVERSITY EXTENSION**

		Men	Women	Total
The School of Agriculture (M, 514; W, 89*)				
Six Months Course .....	308	87		
Six Weeks Course (M, 206; W, 2*). . . . .	205	2		
		213	89	602
The School of Fine Arts (M, 9; W, 100*)				
Nine Months Course .....	5	27		32
The University School of Music (M, 149; W, 585*)				
Nine Months Course .....	123	458		581
The School of Pharmacy (M, 31; W, 6*)				
Two-Year Course (nine months) (M, 24; W, 5*). . . . .	23	4		
Three-Year Course (nine months) . . . . .	3	..		30
The Teachers College High School (M, 74; W, 74*)				
Nine Months Course .....	72	70		142
University Extension (M, 137; W, 329*)				
June 1, 1910 to May 1, 1911.....	115	299		414
Grand Total (Men, 854; Women, 947).....				1801
Deduct for repeated names (Men, 6; Women, 10) . . . . .				16
Total Registration (Men, 848; Women, 937) . . . . .				1785
<b>GRAND TOTAL OF UNREPEATED NAMES</b>				
(Men, 2839; Women, 1785).....				4624
(Colleges, Schools, University Extension)				

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\*Total including those registered primarily in the colleges.

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Series XVII

BULLETIN OF THE  
UNIVERSITY OF NEBRASKA

Number 10.

# Bulletin of The University of Nebraska

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FORTY-SECOND ANNUAL

## GENERAL CATALOG

CONTAINING

THE COMPLETE RECORD FOR 1911-1912

ANNOUNCEMENTS FOR 1912-1913



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Published by the University in June, 1912. Entered at the Post-Office at Lincoln, Nebraska, as second-class matter under Act of Congress July 16, 1894. The Bulletin of the University of Nebraska is published semi-weekly during the month of April, and monthly in May, June, August and November of each year. One number each is issued of the General Catalog, College of Agriculture, the College of Engineering, the College of Law, the College of Medicine, the Summer Session, and the Schools of Pharmacy and Agriculture. A separate catalog of the Graduate College is also published. On request, any of these are furnished by the Registrar, Station A, Lincoln, Nebraska.

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УЧАСТИ

# Bulletin of The University of Nebraska

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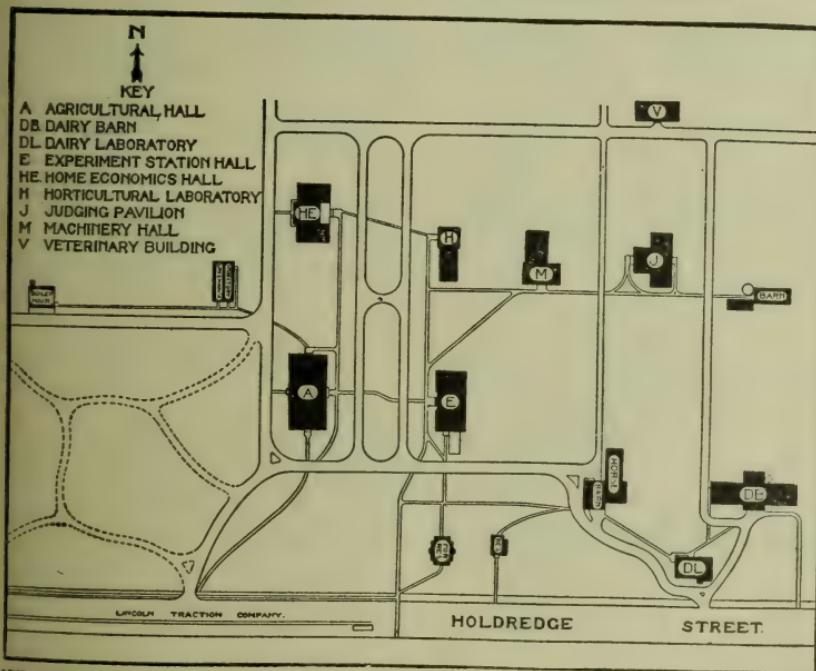
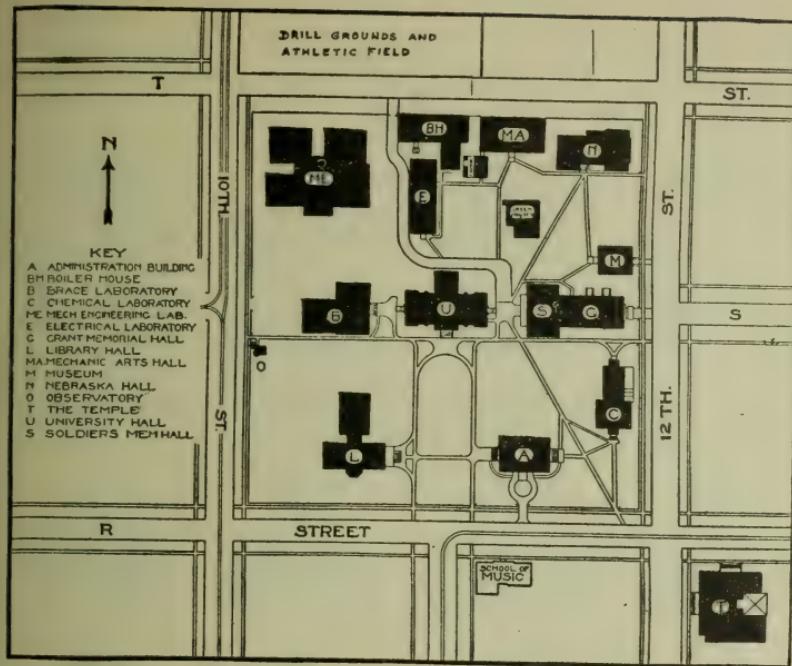
## FORTY-SECOND ANNUAL GENERAL CATALOG CONTAINING THE COMPLETE RECORD FOR 1911-1912 ANNOUNCEMENTS FOR 1912-1913



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# 1912

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31	... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

# 1913

JANUARY							FEBRUARY							MARCH							APRIL								
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
29	30	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
MAY							JUNE							JULY							AUGUST								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...

## 1912

Sept. 18-21 Registration, first semester.  
 Nov. 27-Nov. 30 Thanksgiving Recess.  
 Dec. 23-Jan. 4 Christmas Recess

## 1913

Jan. 29-Feb. 1 Registration, second semester.  
 Feb. 15 Charter Day.  
 Mar. 17-22 Spring Recess.  
 May 30 Decoration Day.  
 June 8-12 Forty-second Annual Commencement

**CALENDAR FOR 1912-1913 OF ALL COLLEGES AND SCHOOLS****1912**

September 10	Tuesday	College of Medicine registration at Omaha.
September 11	Wednesday	College of Medicine, lectures begin at Omaha.
September 16-21	Monday-Saturday	University entrance examinations.
<b>September 18</b>	<b>Wednesday</b>	<b>Registration, first semester.</b>
September 19-21	Thursday-Saturday	Registration begins, first semester, Lincoln Dental College (associated with the University).
September 21	Saturday, 8 p. m.	University reception to all students.
September 24	Tuesday, 11 a. m.	Opening address, the Chancellor.
October 14	Monday	School of Agriculture, first semester begins.
November 2	Saturday	The Trail (under auspices of Y. W. C. A.).
November 16	Saturday	Annual Dramatic Club play.
<b>November 27</b>	<b>Wednesday, 12 m.</b>	<b>Thanksgiving recess begins.</b>
November 30	Saturday, 12 m.	Thanksgiving recess ends.
December 6	Friday	Debate or Cornhusker banquet.
December 10	Tuesday	Regular Meeting of the Board of Regents (first Tuesday after the first Wednesday in December).
December 13	Friday	Debate or Cornhusker banquet.
December 23	Monday, 8 a. m.	Christmas vacation begins.

**1913**

January 4	Saturday, 12 m.	Christmas vacation ends.
January 6	Monday	School of Agriculture, winter course begins.
Jan. 27-Feb. 1	Monday-Saturday	Entrance examinations.
<b>Jan. 29-Feb. 1</b>	<b>Wednesday-Sat.</b>	<b>Registration, second semester.</b>
Jan. 30-Feb. 1	Thursday-Saturday	Registration begins, second semester, Lincoln Dental College (associated with the University).
January 27	Monday	School of Agriculture, second semester begins.

## THE UNIVERSITY OF NEBRASKA

February 3	Monday	Second semester classes begin.
February 14	Friday, 8 p. m.	Annual Address before the Sigma Xi Society.
February 15	Saturday	Charter Day. A holiday. Regular meeting of the Board of Regents. Seventeenth Annual Mid-Winter Commencement.
March 17	Monday, 8 a. m.	Spring recess begins.
March 22	Saturday, 12 m.	Spring recess ends.
April 8	Tuesday	Regular meeting of the Board of Regents (the first Tuesday after the first Wednesday in April). School of Agriculture, Principal's reception.
April 23	Wednesday	School of Agriculture Commencement.
April 25	Friday	College of Medicine Commencement.
May 22	Thursday	Decoration Day. A holiday.
May 30	Friday	Final recommendation by faculties for degrees.
June 9	Monday, 4 p. m.	Second semester class-work ends.
June 10	Tuesday, 6 p. m.	Baccalaureate Sermon.
<b>Commencement Week, 1913.</b>		
June 8	Sunday	Annual meeting Board of Regents.
June 10	Tuesday	Alumni Day.
June 11	Wednesday 9 a. m.—2 p. m. 4 p. m.	Class reunions and dinners. Business meeting and Alumni address. Agricultural Hall.
June 12	5 to 7 p. m. 9 p. m. Thursday 10 a. m. 10:30 a. m. 8 p. m.	Alumni Banquet. The University Farm. Alumni Cotillion. The Temple. Forty-second Annual Commencement. Commencement procession. Oration and conferring of degrees. Chancellor's reception.
June 13	Friday	Registration, Summer Session.
September 9	Tuesday	College of Medicine registration at Omaha.
September 17	Wednesday	<b>First semester begins (1913-1914).</b>

# General Information Concerning the University

## THE UNIVERSITY

**Colleges and Schools of the University.** By statute, the University of Nebraska comprises the following colleges and schools:

The Graduate College

The College of Arts and Sciences, including the School of Fine Arts

The Teachers College, including the Teachers College High School

The College of Engineering

The College of Agriculture, including the Schools of Agriculture

The College of Law

The College of Medicine,\* including the School of Pharmacy

Information as to the object and work of each of these colleges may be found by consulting the portion of the catalog devoted to each (see general table of contents).

In addition to the foregoing, the University Board of Regents is, by law, the governing board for the Nebraska Agricultural Experiment Station, and of the Experimental Substations at North Platte, Culbertson, Valentine and Scottsbluff; it has entrusted to its care the superintendency of Farmers' Institutes; and the state has created a bureau for the study of Plant Diseases and Destructive Insects with the professors of Agricultural Botany and of Entomology respectively in charge as State Agricultural Botanist and State Entomologist. The state has made an appropriation for a State Conservation Commission and a State Geological Survey under general supervision of the professors of Geography and Economic Geology and of Geology respectively.

The state legislature of 1911 made provision for a second school of Agriculture, under the management of the Board of Regents, to be situated at Curtis.

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\* The Lincoln Dental College has a contract with the University under which its students matriculate as University students for the purpose of instruction in the sciences.

**Equipment of the University.** The grounds and buildings of the University are distributed among three groups: (1) the original campus, situated in the capital city of Lincoln, with its main entrance at Eleventh and R streets, and containing sixteen buildings devoted to academic, law, medicine, and engineering instruction; (2) the University Farm, of three hundred and twenty acres, two and a half miles northeast of the original campus, containing ten buildings devoted to instruction in agriculture, home economics, and forestry; (3) the Medical College building in Omaha, at the corner of Twelfth and Pacific streets. For the latter, a new site has recently been secured in the city of Omaha, and lies between Howard and Jackson, and Thirty-ninth and Fortieth streets. Adjacent to this campus and on land belonging to the state, is the new Child-Saving Institute, the clinical facilities in which are under the control of the University. The legislature of 1911 appropriated \$100,000.00 to be used for building purposes. The first building is now in the process of construction. The various libraries, laboratories, museums and collections of the University, available for use by students of the University, are described in those portions of the catalog devoted to the colleges or schools with whose work they are chiefly connected.

**Government of the University.** The chancellor, chosen by the board of regents, is the chief executive officer of the University; subject to the rules and orders of the board he has both pedagogical and business supervision over the University as a whole, over the various colleges, and over all the affairs and interests of the University. For each of the colleges within the University the board of regents elects a dean, to be the presiding officer of the faculty of his college and to perform such other duties as the board or the faculty of his college may require. The faculty of each college, subject to the chancellor and the board, determines upon all matters relative to the internal affairs of its college. A University senate, corresponding to the "general faculty" of other universities, and subject to the chancellor and board, determines questions which concern more than one college or the University as a whole. The Chancellor, deans, heads and acting heads of departments, and such other members of staff as the Regents may name are voting members of the senate.

**Revenues of the University.** By an amendment in 1899 of the original act of incorporation (1869), a tax of one mill upon the grand assessment roll of the state is provided for the support of the University. Added to this are incomes from land leases and sales under the land-grant act of

Congress of 1862 for the benefit of the Industrial College,\* and under the enabling act reserving seventy-two sections of land for the State University; interest on permanent fund investments; and the money grant by the

**History of the University.** The University of Nebraska was founded by an act of the Nebraska legislature, effective February 15, 1869. The subsequent new constitution of 1875 recognized the University as thus established, placed it under the general control of an elective board of six regents, and made certain fundamental provisions as to its organization and administration. The next legislature (1877) revised the act of 1869 in accordance with the provisions of the new constitution. Under this revised act (Compiled Statutes of Nebraska, Chapter 87), as slightly amended by the legislature of 1909,\* the University is at present organized and operating.

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\* In 1909, the Industrial college was erected into the colleges of Agriculture and Engineering by the state legislature; the same legislature authorized the creation of the Graduate college and the Teachers college. act of Congress, commonly known as the Morrill Act, August, 1890, and by the Hatch Fund Act of 1887, and the Adams Act of 1906 supplemental thereto. In addition to this are the fees paid by students for various purposes.

**THE BOARD OF REGENTS**

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HON. CHARLES BARNEY ANDERSON.....	Lincoln
Term expires January, 1914.	
HON. GEORGE COUPLAND .....	Elgin
Term expires January, 1914.	
HON. CHARLES SUMNER ALLEN, President.....	Lincoln
Term expires January, 1916.	
HON. WILLIAM GUNN WHITMORE.....	Valley
Term expires January, 1916.	
HON. FRANK LOUIS HALLER.....	Omaha
Term expires January, 1918.	
HON. VICTOR GERALD LYFORD.....	Falls City
Term expires January, 1918.	

**Committees of the Board of Regents.**

Executive—Messrs. Allen, Lyford, Haller.

Finance—Messrs. Lyford, Anderson, Haller.

Property—Messrs. Whitmore, Lyford, Coupland.

Industrial Education—Messrs. Coupland, Whitmore, Anderson.

**OFFICERS OF ADMINISTRATION OF THE UNIVERSITY**

SAMUEL AVERY, Ph. D., LL. D., Chancellor and President of the University Senate. Administration Hall 101.

ELISHA BENJAMIN ANDREWS, D. D., LL. D., Chancellor Emeritus.

JAMES STUART DALES, M. Ph., Secretary of the Board of Regents and of the University Senate. Administration Hall 102.

MAX WESTERMANN, Assistant Secretary of the Board of Regents. Administration Hall 102.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher. Administration Hall 103.

CHARLES EDMUND CHGWINS, M. E., Superintendent of Buildings, Grounds and Construction. Administration Hall 208.

ALBERT ALISON REED, A. B., Inspector of Accredited Schools. Administration Hall 203.

ALICE BAIRD ENSIGN, A. B., Adviser to Women. Administration Hall 104.

MABEL DUNN, M. D., Consulting and Examining Physician for Women.

SENATOR WILLIS PERIN, Superintendent of the University Farm.

WILLIAM PATTON SNYDER, A. B., M. S., Superintendent Experimental Substation at North Platte.

JAMES COWAN, M. M. E., Superintendent of Experimental Substation at Valentine.

FRITZ KNORR, B. Sc., Superintendent of Experimental Substation at Scottsbluff.

WILLIAM HILL DUNMAN, Landscape Gardener.

HARLAN ALFRED EVANS, Purchasing Agent.

ALLEN REED BEACH, Chief Clerk at the University Farm.

WILLIAM WARNER MARSHALL, Executive Clerk of Nebraska Experiment station.

JOHN GREEN, Engineer of Heating and Power Plant.

EDWARD EMIL ANDERSON, B. Sc., Assistant Superintendent of Construction.

WILLIAM WARD VOTAW, Assistant Superintendent in charge of Grounds, Buildings and Janitors.

ADOLPH MAX VOSS, A. B., Assistant Inspector of Accredited Schools.

VANCIL KELSO GREER, LL. B., Assistant Registrar.

FREDERICK ADDISON HOSFORD, Electrician.

LULU MENLOVE, Head of Stenographic Bureau.

\* VADA CLEGG VENNUM, Assistant Registrar School of Agriculture and Assistant Secretary to Faculty of College of Agriculture.

MAUDE RENNIE ORD, Secretary to the Chancellor.

FLORENCE McGAHEY, A. B., Assistant Registrar.

MAUD CHEUVRONT, Executive Clerk, Registrar's Office.

JULIET MITCHELL VORE, Assistant in Registrar's Office.

JOHN RICHARD MEYER, Assistant in Registrar's Office.

LEO JOSEPH LOGAN, Chief Clerk, Secretary's Office.

TERRY ARTHUR WILLIAMS, Voucher Clerk, Secretary's Office.

ANAN RICHARD RAYMOND, A. B., Assistant in Chancellor's Office.

\*CARSON ALEXANDER RUTLEDGE, Assistant in Purchasing Agent's Office.

EUNICE WILLIS, Assistant in Stenographic Bureau.

HAZEL SYRENA THORNBURG, Assistant in Purchasing Agent's Office.

HARRY M. MILLER, Assistant in Purchasing Agent's Office.

\* MARGARET HARKINSON VOLLEBEHR, Stenographer in Teachers' Bureau.

BESSIE ENYEART THOMPSON, Secretary to Inspector of Accredited Schools.

MARY ANN ETTE ANDERSON, B. D., Secretary in Teachers Bureau

### Of the Colleges

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Dean.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Dean of the Graduate College.

ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences.

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\* Resigned.

EDGAR ALBERT BURNETT, B. Sc., Dean of the College of Agriculture, Director of Nebraska Experiment Stations.

CHARLES FORDYCE, Ph. D., Dean of the Teachers College.

WILLIAM GRANGER HASTINGS, A. B., Dean of the College of Law.

OSCAR VAN PELT STOUT, B. C. E., C. E., Dean of the College of Engineering.

ROBERT HENRY WOLCOTT, A. M., M. D., Acting Dean of the College of Medicine.

WILLSON ORTON BRIDGES, M. D., Associate Dean of the College of Medicine.

#### **Of the Schools**

FREDERICK MAURICE HUNTER, A. B., Head Professor of Secondary Agricultural Education and Principal of the School of Agriculture.

\* MRS. A. E. DAVISSON, Acting Principal of the School of Agriculture to September 1, 1911.

SARA SHEWELL HAYDEN, Director of the School of Fine Arts.

RUFUS ASHLEY LYMAN, A. M., M. D., Director of the School of Pharmacy.

CHARLES WILLIAM TAYLOR, A. B., Professor of School Administration and Principal of the Teachers College High School.

\* GEORGE CROCKER, B. Sc., Superintendent of the Teachers College High School.

JULIA EMMELINE LOUGHRISE, A. B., Assistant Principal of the School of Agriculture.

#### **Of the Library**

WALTER KENDALL JEWETT, A. B., M. D., Librarian.

NELLIE JANE COMPTON, A. B., Assistant Librarian.

CLARA CRAIG, A. B., Reference Librarian.

MARGUERITA FLORENCE HAWLEY, A. B., Cataloger in Library.

\* MARION CINDERELLA BELL, A. B., B. L. S., Cataloger in Library.

JESSIE JUNE GLASS, A. B., Library Assistant.

ADELAIDE C. ROOD, Library Assistant.

HARRIET WILSON, A. B., Library Assistant.

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\* Resigned.

EDNA CLARA NOBLE, B. L., Library Assistant.

MABELLE BENTON BEATTIE, A. M., Library Assistant.

\* PEARLE BURR, Library Assistant.

ALTA M. KATES, Library Assistant.

GRACE ROOD, Library Assistant.

#### **Of the Museum**

ERWIN HINCKLEY BARBOUR, Ph. D., Curator of the University Museum.

CARRIE ADELINE BARBOUR, B. Sc., Assistant Curator of the University Museum.

RAYMOND JOHN POOL, A. M., Curator of the Herbarium.

\* WILLIAM HARRISON LAMB, Assistant Curator of the Herbarium.

#### **Of the Gymnasium**

RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Director of the Men's Gymnasium.

INA ESTELLE GITTINGS, A. B., Director of the Women's Gymnasium.

EWALD ORTWIN STIEHM, A. B., Director of Athletics.

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\* Resigned.

## THE UNIVERSITY SENATE

### Officers

President, Samuel Avery, Ph. D., LL. D., Chancellor of the University.  
Secretary, James Stuart Dales, M. Ph., Secretary of the Board of Regents.

### Members

Deans Bessey, Burnett, Davis, Fordyce, Hastings, Sherman, Stout, Woleott, and Associate Dean Bridges.

Head Professors Alway, Barber, Barbour, Bruner, Caldwell, Chatburn, Clapp, Condra, Fling, Fossler, Frandsen, Frye, Hoffman, Howard, Hunter, Lees, Le Rossignol, Luckey, Pugsley, Skinner, Wolfe, and Acting Heads of Department Barker, Dales, Gain, Hrbkova, Sponsler.

Professors Aikin, Alexander, Almy, Bouton, Bridges, Brownell, Buek, Candy, Chase, Conant, Conklin, Crummer, Dann, B. B. Davis, Emerson, Engberg, Findley, Fogg, Gifford, Grumman, Guenther, Hinman, Jonas, Kiesselbach, McClanahan, Macrea, Maxey, Milroy, B. E. Moore, R. C. Moore, Morse, Owen, Powers, Poynter, Raymond, Robbins, Schalek, Somers, Stuff, Swezey, Taylor, Towne, Tuttle, Virtue, Waite, Webster, Wilcox, Willard, Wilson.

Registrar Rutledge, Adviser to Women Ensign, Librarian Jewett, Inspector Reed, Commandant Yates, Directors Hayden, Lyman.

### Standing Committees

Accredited Schools and Admission to Freshman Standing in the Colleges—The Chancellor (chairman), Deans Burnett, Davis, Stout, Professors Lees, Reed and the Registrar.

Athletics—Professors Barber (chairman), Hunter, Jewett, Skinner, Wolfe, the Athletic Director.

Calendar and Bulletins—The Chancellor (chairman), The Deans, the Registrar.

Credits in Music and Art—Professors Dann (chairman), Conant and Mrs. Raymond.

Delinquent Students—Professor Chatburn (chairman), the Adviser to Women, Professors Engberg (secretary), Frye, Conant, the chairmen of inter-fraternity and inter-sorority councils.

Emergencies—The Chancellor (chairman), the Deans.

The Library—The Chancellor (chairman), the Deans, Professor Jewett (secretary).

Publication of University Studies—Professors Sherman (chairman), Bessey, Fling, Grummann, Jewett (editor).

Student Organizations and Social Functions—Professors Chatburn (chairman), Tuckerman (auditor), Le Rossignol, Sanford, the Adviser to Women, the chairmen of the inter-fraternity and inter-sorority councils.

Convocation Exercises—Professor Grummann (chairman), Mrs. Raymond, the Registrar.

University Extension Courses and Credits—Professors Davis (chairman), Caldwell, Condra, Grummann, Pugsley, Reed, Wolfe.

Student Publications—Professors Stout (chairman), Aylsworth (secretary), Alexander, Buck, Hunter.

Nominations—The Chancellor (chairman), Professors Barber, Bessey, Burnett, Howard, Lees.

Correlation of Courses—The Chancellor (chairman), and the chairmen of the course of study committees of the colleges.

Student Welfare—Professor Wolfe (chairman), the Chancellor, Professors Conklin, Howard, Hunter.

Summer Session—Professors Bessey, Burnett, Caldwell, Davis, Fordyce, Fossler, Frandsen, Reed, Wolfe.

Use of Grounds and Buildings—Professors Barbour (chairman), Aylsworth, Tuckerman, the Registrar, Mr. C. E. Chowins.

## ALPHABETICAL LIST OF ALL OFFICERS OF ADMINISTRATION AND INSTRUCTION

### Marks and Abbreviations

Figures in parentheses (as 1910, 1911) indicate, respectively, year in which present rank was attained and year of first membership in a faculty of the University.

Letters in parentheses (as AS, E) indicate college faculty or faculties of which the person is a member.

#### FACULTIES

A=College of Agriculture  
 AS=College of Arts and Sciences  
 E=College of Engineering  
 G=Graduate College

L=College of Law  
 M=College of Medicine  
 T=Teachers College

#### OFFICES

Adm.=Administration Hall, Campus  
 Agr. H.=Agricultural Hall, Farm  
 B=Brace Laboratory of Physics, Campus  
 C=Chemistry Hall, Campus  
 D=Dairy Hall, Farm  
 Elect.=Electrical Engineering Laboratories, Campus  
 E. S.=Experiment Station Hall, Farm  
 G=Grant Memorial Hall, Campus  
 H. E.=Home Economics Hall, Farm

Hort. H.=Horticultural Hall, Farm  
 L=Library Hall, Campus  
 M=Mechanic Arts Hall, Campus  
 M. E.=Mechanical Engineering Laboratories, Campus  
 Mach. H.=Machinery Hall, Farm  
 Mus.=Museum Hall, Campus  
 N=Nebraska Hall, Campus  
 S=Soldiers' Memorial Hall, Campus  
 U=University Hall, Campus

- Aikin, Joseph Melanchthon, M. D., Professor of Mental and Nervous Diseases, 468 Brandeis Building, Omaha (M.).
- Albin, Walter Leonard, M. D., Instructor in Pathology (1911, 1911), N 306, University Place (AS, M.).
- Alexander, Hartley Burr, Ph. D., Professor of Philosophy (1908, 1908), L 111, 1736 Garfield street (AS, G.).
- Alexis, Joseph Emanuel Alexander, A. M., Adjunct Professor in Swedish and Germanic Languages (1912, 1910), U 108, 1420 Elm street (AS).
- Alny, John Edwin, Ph. D., Professor of Experimental Physics (1909, 1900), B 112, 2300 A street (AS, G.).
- Alway, Frederick James, Ph. D., Head Professor of Agricultural Chemistry (1909, 1906), E. S., 517 East Fifteenth street, University Place (A, G.).
- Anderson, Edward Emil, B. Sc., Assistant Superintendent of Construction, Adm. 207, 2240 R street (Adm.).
- Andra, Emma Margaret, A. B., Assistant Instructor in Romance Language, U 301, 920 Rose street (AS).
- Anderson, Mary Annette, B. Di., Secretary in Teachers' Bureau, Adm. 203, 2511 S street (Adm.).
- Avery, Samuel, Ph. D., LL D., Chancellor and President of the University Senate (1909, 1901), Adm. 101, 2001 Washington street (Adm.).

- Aylsworth, Leon Emmons, A. M., Associate Professor of Political Science (1910, 1902), U 103, 2048 Vine street (AS, G).
- Bach, Emma, Instructor in Germanic Language (1912, 1912), U 108, 1521 U street (AS).
- Baer, Alva Aldus, Instructor in Woodwork, Department of Farm Mechanics (1907, 1907), Mach. H., 1729 Prospect street (A).
- Barber, Grove Ettinger, A. M., Head Professor of Roman History and Literature, (1906, 1882), U 205, 1320 L street (AS, T, G).
- Barbour, Carrie Adeline, B. Sc., Instructor in Paleontology and Assistant Curator of the Museum (1912, 1893), Mus. 101, 1446 Q street.
- \* Barbour, Erwin Hinckley, Ph. D., Head Professor of Geology (1893, 1891), Curator of the University Museum, Mus. 201, 1234 R street (AS).
- Barker, Franklin Davis, Ph. D., Associate Professor of Zoology (1909, 1903), N 202, 1528 E street (AS, M, G).
- Barker, Percy Bonsfield, A. B., Associate Professor of Agronomy (1912, 1908), E. S., 3003 Starr street (A).
- Barns, Viola Florence, A. M., Fellow in American History, U 210, 435 North Twenty-fifth street (AS).
- Baumgartner, Milton D., A. M., Assistant Professor of Germanic Languages (1912, 1907), U 108, 1220 South Twenty-second street (AS).
- Beach, Allen Reed, Chief Clerk of the University Farm, Agr. H. 202, 3136 Hol-drege street (Adm.).
- Beattie, Mabelle Benton, A. M., Library Assistant, M 202, 421 South Fifteenth street (Adm.).
- Beghtol, Jessie Gretchen, A. B., Instructor in Physical Education (1911, 1910), S 202, 1700 L street (AS).
- † Bell, Marion Cinderella, A. B., B. L. S., Cataloger in the Library.
- Bengtson, Nels August, A. M., Assistant Professor of Geography and Economic Geology (1910, 1908), U 1, 1911 Euclid avenue (AS, T, E, A).
- Bennett, Elizabeth Ruth, Ph. D., Instructor in Mathematics (1910, 1910), M 301½, 1129 F street (AS).
- Bessey, Charles Edwin, Ph. D., LL. D., Head Dean, and Head Professor of Botany (1909, 1884), N 104a, 1507 R street (AS, T, A. G.).
- Bliss, Rodney Waldo, B. Sc., M. D., Instructor in Clinical Pathology and Internal Medicine, 410 Brandeis Theater Building, Omaha (M).
- Boardman, Leland Jaynes, A. B., Graduate Assistant in Physics, B 113, Y. M. C. A. Building (AS).
- Borrowman, George, A. M., Assistant Professor of Chemistry (1912, 1905), C 8, 947 South Thirteenth street (AS, E).
- Beuton, Rosa, A. M., Professor of Home Economics (1908, 1900), H. E. (A, T).
- Brenke, William Charles, M. Sc., Ph. D., Associate Professor of Mathematics (1909, 1907), M 305, 1250 South Twenty-first street (AS, E).
- Bridges, Willson Orton, M. D., Associate Dean of the College of Medicine and Professor of Principles and Practice of Medicine and Clinical Medicine, 418 Brandeis Theater Building, Omaha (M).
- Bridgman, Judd Noble, M. S., Assistant Professor of Civil Engineering (1910, 1910), M 203, 1909 South Twenty-seventh street (E).
- Brock, Henrietta McElroy, Instructor in China Painting (1894, 1894), L 304, 620 South Tenth street (AS).
- Brown, Mary Ellen, B. Sc., Instructor in Home Economics (1911, 1911), H. E. (A).
- Brownell, Herbert, B. Sc., Professor of Theory and Practice of Teaching the Physical Sciences (1910, 1910), T 5, 2627 P street (T, AS).

\* Director of the State Geological Survey.

† Resigned.

- \* Brunner, Lawrence, B. Sc., Head Professor of Entomology and Entomologist of the Experiment Station (1894, 1888), N 302, 2314 South Seventeenth street (AS, A. G.).
- Buck, Philo Melvyn, Jr., A. M., Professor of Rhetoric (1912, 1910), U 107c, 1825 Pepper Ave. (AS).
- Bullock, Edna Dean, B. L., Librarian Legislative Reference Bureau, U 6, Thirty-sixth and Y streets.
- Bullock, Flora, A. M., Adjunct Professor of English in the School of Agriculture (1910, 1903), Agr. H. 109, Thirty-sixth and Y streets (A).
- Bunting, Albert Eggleton, Adjunct Professor of Practical Mechanics (1909, 1907), M. E. 202, 1721 C street (E).
- Burnett, Edgar Albert, B. Sc., Dean of the College of Agriculture and Director of Experiment Stations (1901, 1899), Agr. H. 203, 3256 Holdrege street (A).
- Burr, William Wesley, B. Sc., Associate in Soils and Crops at North Platte Experiment Substation (A).
- Caldwell, Howard Walter, A. M., Head Professor of American History (1892, 1883), U 210, 1919 E street (AS, G, T).
- Candy, Albert Luther, Ph. D., Professor of Pure Mathematics (1907, 1893), M 304, 1003 H street (AS, G).
- Chamberlain, May, A. M., Instructor in Germanic Languages and Literatures (1900, 1896), U 108, 2730 Q street (AS).
- Chase, Leon Wilson, B. Sc. in M. E., Head Professor of Agricultural Engineering (1908, 1904), Mach. H., 1245 North Thirty-third street (A, G).
- Chatburn, George Richard, A. M., C. E., Head Professor of Applied Mechanics and Machine Design (1909, 1894), M 101, 2850 P street (E, G).
- Cheuvront, Maud Alice, Executive Clerk Registrar's Office, Adm. 103, 2740 T street (Adm.).
- Chowins, Charles Edmund, M. E., Superintendent of Buildings, Grounds and Construction (1887, 1887) Adm. 208, 1802 Washington street (Adm.).
- Chowins, John Martin, Expert Mechanician, Department of Physics, 2820 T street.
- Christie, Burton Whitford, B. Sc., M. D., Instructor in Pediatrics, 417 Barker Block, Omaha (M).
- Clapp, Raymond Gustavus, Ph. B., M. D., Head Professor of Physical Education and Director of the Men's Gymnasium (1912, 1902), G 206, 2017 Washington street (AS, T, G, M).
- Cloyd, Augustus Davis, M. D., Lecturer in Life Insurance Examinations, Woodman Building, Omaha (M).
- Compton, Nellie Jane, A. B., Assistant Librarian, L, 1736 Cherry street (Adm.).
- Conant, Ernest Bancroft, A. B., LL. B., Professor of Law (1907, 1907), U 308, 1430 South Eighteenth street (L).
- † Condra, George Evert, Ph. D., Head Professor of Geography and Economic Geology (1912, 1902), U 2, 1319 Q street (AS, A, E, T, G).
- Conklin, Clara, A. M., Professor of Romance Language and Literatures (1904, 1892), U 301, Gertrude Hall (AS, T, G).
- Cornell, Clare Brown, A. B., Instructor of Cadet Band, Armory, 540 North Twenty-sixth street (AS).
- Cowan, James, M. M. E., Superintendent of Experiment Substation at Valentine (Adm.).
- Craig, Clara Louisa, A. B., Reference Librarian, L, 421 South Twenty-eighth street (Adm.).
- ‡ Crocker, George R., B. Sc., Superintendent of the Teachers College Training School.

\* Joint Director of a state bureau for the study of Plant Diseases and Destructive Insects in connection with the Experiment Station.

† Director of State Conservation and Soil Surveys.

‡ Resigned.

## THE UNIVERSITY OF NEBRASKA

- Cutter, Irving Samuel, B. Sc., M. D., Instructor in Chemistry (1911, 1911), C, 212 Richards Block (AS, M).
- Dales, Benton, Ph. D., Professor of Chemistry and in charge of Department of Chemistry (1908, 1903), C, 2025 C street (AS, T, E, M, G).
- Dales, James Stuart, M. Ph., Secretary of the Board of Regents and of the University Senate, Adm. 102, 1743 A street (Adm.).
- Dann, William Francis, A. M., Professor of History and Criticism of the Fine Arts (1907, 1894), U 202, 3037 R street (AS, G).
- Davis, Byron Bennett, A. B., M. D., Professor of Principles of Surgery and Clinical Surgery, 200 Bee Building, Omaha (M).
- Davis, Ellery Williams, Ph. D., Dean of the College of Arts and Sciences and Head Professor Mathematics (1893, 1893), M 301½, 1345 South Eighteenth street (AS, T, E, G).
- Davis, Helen Lee, B. Sc., A. B., Adjunct Professor in Home Economics (1912, 1911), H. E. (A).
- Davis, Searl S, A. B., Instructor in Rhetoric (1911, 1910), U 107a, 1920 A street (AS).
- Day, Anna Mabel, Instructor in Physical Education (1910, 1910), G, 348 North Twenty-ninth street (AS).
- Day, Elsie, A. B., Ph. G., Instructor in Pharmacognosy, N 7, 2030 Sumner street (AS, M).
- Dean, Charles Lee, B. Sc. in M. E., Assistant Professor of Mechanical Engineering (1909, 1902), M. E. 101, 140 North Twenty-eighth street (E, G).
- DeLacy, George Lewis, LL. B., Instructor in Law (1910, 1909), U 310a, 403 Funke Building (L).
- Denny, Glaideth Gainevere, A. B., Instructor in German and History (1908, 1908), School of Agriculture, Agr. H. 304, 1726 Q street (A).
- Dunman, William Hill, Landscape Gardener, Hort. H., Thirty-seventh and Hol-drege streets (Adm.).
- Dunn, Mabel, M. D., Consulting and Examining Physician for Women, G, 1238 O street (Adm.).
- Duppert, William Jacob, M. S. F., Adjunct Professor of Forestry (1911, 1911), N 303, 3010 Q street (A, G).
- Eaves, Lucile, M. S. C., Ph. D., Associate Professor of Practical Sociology (1908, 1908), U 103, 719 South Sixteenth street (AS, G).
- Emerson, Rollins Adams, B. Sc., Professor of Horticulture (1905, 1899), Hort. H., 1205 North Thirty-third street (A, AS).
- Engberg, Carl Christian, Ph. D., Professor of Applied Mathematics (1908, 1896), Adm. 104, 330 North Thirty-second street (AS, E, G).
- England, Minnie Throop, Ph. D., Instructor in Political Economy (1909, 1909), U 101, 517 East Seventeenth street, University Place (AS).
- Ensign, Alice Baird, A. B., Adviser to Women, Adm. 104, Walworth Road, R. R. No. 4 (Adm.).
- Evans, Harlan Alfred, Purchasing Agent, Adm. 202, 201 West Nineteenth street, University Place (Adm.).
- Fairchild, Nora May, M. D., Clinical Assistant in Gynecology, 826 Brandeis Building, Omaha (M).
- Filley, Horace Clyde, A. M., Assistant Professor in Farm Management (1912, 1911), Agr. H. 305, 2537 S street (A).
- Findley, Palmer, B. S., M. D., Professor of Didactic and Clinical Gynecology, 418 Brandeis Theater Building, Omaha (M).
- Flensburg, Claude Copley, Lecturer on Advocacy, Funke Building, 1645 A street (L).
- Fling, Fred Morrow, Ph. D., Head Professor of European History (1905, 1891), L 309, 1304 B street (AS, T, G).
- Fogg, Miller Moore, A. M., Professor of Rhetoric (1905, 1901) U 206, 1605 K street (AS, G).

## OFFICERS AND MEMBERS OF FACULTIES

21

- \* Folger, Harriet, B. Sc., Associate Professor of Home Economics, H. E. Hall (1909, 1909), 1129 J street (A).  
Foote, Paul D., A. B., Graduate Assistant in Physics, B. 115, 2601 Q street (AS).  
Fordyce, Charles, Ph. D., Dean of the Teachers College and Head Professor of Educational Theory and Practice (1908, 1908), Adm. 104, 1921 C street (T, AS, G).  
Fossler, Laurence, A. M., Head Professor of Germanic Languages and Literatures (1894, 1889), U 108, 1547 South Seventeenth street (AS, T, G).  
Fossler, Mary Louise, A. M., Adjunct Professor of Chemistry (1908, 1898), C, 2434 Q-street (AS, M).  
Frandsen, Julius Herman, M. S. A., Head Professor of Dairy Husbandry (1911, 1911) D, 3270 Starr street (A).  
Frankforter, Clarence Jackson, A. M., Instructor in Chemistry and Custodian of Supplies (1909, 1909), C, 710 North Twenty-fourth street (AS).  
French, William Luther, B. Sc., Adjunct Professor of Dairy Husbandry (1909, 1909), D, 3011 Starr street (A, T).  
Frye, Prosser Hall, A. B., Head Professor of Rhetoric (1909, 1896), U 107b, 528 South Tenth street (AS, T, G).  
Gain, James Harrison, M. D. C., Professor of Animal Pathology (1910, 1901), Veterinary Bldg., 3245 Starr street (A).  
Gass, Sherlock Bronson, Ph. B., Assistant Professor of Rhetoric (1911, 1905), U 107c, 1712 E street (AS).  
Gifford, Harold, B. S., M. D., Professor of Ophthalmology and Otology, 563 Brandeis Building, Omaha (M).  
Gish, Oliver Holmes, B. Sc., Graduate Assistant in Physics, B 113, 535 North Sixteenth street (AS).  
Gittings, Ina Estelle, A. B., Adjunct Professor of Physical Education and Director of Women's Gymnasium (1911, 1907), S 202, 1645 R street (AS, T).  
Glass, Jessie June, A. B., Library Assistant, L, 3141 Holdrege street (Adm.).  
Glidden, Clara, A. B., Library Assistant, L (Adm.).  
Goetz, James Samuel, M. D., Adjunct Professor of Therapeutics, 324 Bee Building, Omaha (M).  
\* Graham, Mary Catherine, A. B., Assistant Instructor in Chemistry.  
Gramlich, Howard John, B. Sc., Assistant in Agricultural Extension, Agr. H. 204, 535 North Sixteenth street (A).  
Green, John, Engineer of Heating and Power Plant, (Adm.).  
Greer Vancil Kelso, LL. B., Assistant Registrar, Adm. 103 (Adm.).  
Grennan, John, Instructor in Mechanical Engineering (1911, 1911), (E).  
Griffith, Donee, Assistant in Geography and Economic Geology, U 1, 1915 South Eleventh street (T, AS).  
Grummann, Paul Henry, A. M., Professor of Modern German Literature (1907, 1900), U 111, 1967 South street (AS, T, G).  
Guenther, August Ernest, Ph. D., Professor of Physiology (1908, 1905), N 5, (AS, M, G).  
\* Hagenow, August, Instructor Cadet Band.  
Hamilton, H. B., M. D., Clinical Assistant in Medicine, Omaha (M).  
Hannah, Margaret Louise, A. B., Instructor in Botany (1912, 1910), N, Gertrude Hall (AS).  
Hannan, William Everett, A. B., Assistant Director, Legislative Reference Bureau, U 6, Thirty-eighth street and Normal Boulevard.  
Hansen, Neils Peter, Ph. G., Lecturer in Pharmacy, N 7, 1933 Garfield street (AS).  
† Harper, Ella Bradford, A. B., Instructor in Home Economics (1908, 1908), H. E., 928 South Tenth street (A).

\* Resigned.

† Leave of absence.

- Hastings, William Granger, A. B., Dean of the College of Law (1900, 1904), U 310, 301 North Thirty-fifth street (L).
- Hawley, Marguerita Florence, S. B., Cataloger in Library, L, 1122 South Fourteenth street (Adm.).
- Hayden, Sara Shewell, Director of School of Fine Arts (1909, 1899), L 306, 1339 South Nineteenth street (AS).
- Hedges, Mabel Maude, A. B., Assistant Instructor in Home Economics (1910, 1910), 2502 Q street (A).
- \* Hendricks, Bernard Clifford, Assistant in Chemistry.
- Heppner, Amanda Henrietta A. M., Assistant Professor of Germanic Language and Literatures (1909, 1894), U 110, 944 Washington street (AS).
- Hill, Cora Belle, A. B., Instructor in Mathematics (1911, 1910), 1530 B street.
- Hilton, David Clark, A. M., M. D., Instructor in Anatomy, 2832 O street (M).
- Hinman, Edgar Lenderson, Ph. D., Professor of Logic and Metaphysics (1906, 1896), L 110, 2510 T street (AS, G).
- Hoffman, James David, B. M. E., M. E., Head Professor of Mechanical Engineering and Practical Mechanics (1912, 1911), M. E. 203, Melick Court (E, G).
- Hollister, Robert Russell, M. D., Instructor in Surgery and Gynecology, 514 Brandeis Theater Building, Omaha (M).
- Hollister, Vernon Leo, B. Sc., Adjunct Professor of Electrical Engineering (1908, 1907), E. E. Lab. 4, 1725 Cherry street (E).
- \* Holmes, Helma Lou, A. B., Fellow in Mathematics, M 301½, 1712 L street (AS).
- Hopt, Erwin, B. Sc., Assistant Professor of Agronomy (1911, 1908), Judging Pavilion 204, 3015 Orchard street (A).
- Hosford, Frederick Addison, Electrician, Adm. 207, Y. M. C. A. Building, (Adm.).
- Howard, George Elliott, Ph. D., Head Professor of Political Science and Sociology (1904, 1904), U 103, 1910 E street (AS, G).
- Howard, Robert Francis, B. Sc. in Agr., Assistant Professor of Horticulture and Assistant in Experiment Station (1911, 1908), Hort. H., 1544 Q street (A).
- Howell, Harriett Alice, A. M., Adjunct Professor of Elocution (1905, 1900), U 106, The Orlo (AS, T).
- Hrbkova, Sarka, A. B., Adjunct Professor of Slavonic Languages, Acting Head of the Department of Slavonic Languages (1910, 1907), M 105, 312 North Fourteenth street (AS).
- Hull, Charles Aaron, M. D., Instructor in Surgery, 200 Bee Building, Omaha (M).
- Hunt, Alfred Onias, D. D. S., Lecturer in Dental Surgery, 420 Bee Building, Omaha (M).
- Hunter, Alice Cushman, Ph. D., Adjunct Professor of Roman History and Literature (1908, 1904), U 205, 1448 R street (AS).
- Hunter, Frederick Maurice, A. B., Head Professor of Secondary Agricultural Education and Principal of the School of Agriculture (1912, 1911), Agr. H. 207, 3230 Starr street (A, T).
- Hyde, Winifred Florence, Ph. D., Instructor in Philosophy (1911, 1911), L 110, 1039 C street (AS).
- \* Jackson, John, M. D., Professor of Physiology.
- Jefferson, Alfred, M. D., Instructor in Therapeutics, 440 Brandeis Building, Omaha (M).
- Jewett, Walter Kendall, A. B., M. D., Librarian (1906, 1906), L, 1634 D street (Adm.).
- Johnson, Henry T., B. S., Instructor in Mathematics (1907, 1907), M 307, 1216 H street (AS).
- Jonas, August Frederick, M. D., Professor of Practice of Surgery and Clinical Surgery, 454 Brandeis Building, Omaha (M).
- Jones, Guernsey, Ph. D., Associate Professor of American History (1909, 1897), U 211, 1418 L street (AS, G).

\* Resigned.

- Jussel, Martin Simon, B. Sc. in Agr., Assistant in Experimental Agronomy, Experiment Station, 1322 S street (A).
- Kates, Alta May, Library Assistant, 137 South Twenty-sixth street (Adm.).
- Kendrick, Raymond Henderson, B. S., Fellow in American History, U 211, 1310 R street (AS).
- Kennedy, Charles Rex, M. D., Instructor in Surgery, 460 Brandeis Building, Omaha (M).
- Kiesselsbach, Theodore Alexander, A. B., B. Sc., Associate Professor in Experimental Agronomy (1912, 1908), 1415 North Thirtieth street (A).
- Kinney, Samuel Marks, A. B., Graduate Assistant in Physics, B 116, 316 West Seventeenth street, University Place.
- Klick, John Joseph, M. D., Assistant in Dermatology, 514 Brandeis Theater Building, Omaha (M).
- Kline, George Washington, A. B., Secretary Alumni Association, 821 First National Bank Building.
- Knorr, Fritz, B. Sc., Superintendent of Experiment Substation at Scottsbluff (Adm.).
- Korsmeyer, Julia Marie, A. M., Assistant Professor of Romance Languages and Literatures (1911, 1901), U 302, 1920 C street (AS, G).
- Lane, Wallace Rutherford, LL. B., Lecturer on Patent, Copyright and Trade Mark Law, Des Moines, Ia. (L).
- Ledwith, John James, B. Sc., LL. B., Adjunct Professor in Law (1911, 1903), U 310, 1230 South Sixteenth street (L).
- Lee, Charles Boss, B. Sc., Assistant Professor of Animal Husbandry (1912, 1910), Agr. H. 103, 1544 Q street (A).
- Lees, James Thomas, Ph. D., Head Professor of Greek History and Literature (1891, 1889), U 215, 645 North Thirtieth street (AS, G, T).
- Lefschetz, Solomon, M. E., Ph. D., Instructor in Mathematics (1911, 1911), 535 North Sixteenth street (AS).
- Lehnhoff, Henry John, A. B., M. D., Instructor in Surgery, M 300, 1945 E street (M).
- Leland, Rev. Dean Richmond, A. M., Chaplain of University Cadets, 204 Armory, 1315 South Twenty-first street.
- Lemere, Henry Bassett, M. D., Instructor in Ophthalmology and Otology, 400 Brandeis Theatre Building, Omaha (M).
- Le Rossignol, James Edward, Ph. D., LL. D., Head Professor of Political Economy and Commerce (1911, 1911), U 101 (AS, G).
- Link, George Konrad Karl, S. B., Adjunct Professor of Agricultural Botany (1910, 1910), Agr. H. 307 (A).
- Logan, Leo Joseph, Chief Clerk, Secretary's Office, Adm. 102, 2704 P street (Adm.).
- Loughridge, Julia Emeline, A. B., Assistant Principal of the School of Agriculture and Adjunct Professor of Mathematics (1909, 1899), H. E. (A).
- Loveland, George Andrew, A. M., LL. B., Associate Professor of Meteorology (1906, 1894) and Observer United States Weather Bureau, B 305, 1130 South Twentieth street (AS, G).
- \* Luckey, George Paul, A. B., Assistant in Physics, B 113, 1439 R street.
- † Luckey, George Washington Andrew, Ph. D., Head Professor of Education (1896, 1895), U 209, 1439 R street (AS, T, G).
- Ludington, Paul Hagans, A. B., M. D., Instructor of Medicine, 815 Brandeis Building, Omaha (M).
- Lyman, Rufus Ashley, A. M., M. D., Professor of Pharmacology and Director of the School of Pharmacy (1908, 1902), N 7, 1641 South Twenty-first street (M, Pharmacy).
- \* McBrien, Jasper Leonidas, A. M., Director of University Extension.

\* Resigned.

† Leave of absence.

- McClanahan, Harry Monroe, M. D., Professor of Pediatrics, 468 Brandeis Building, Omaha (M).
- McComb, Harold Edgar, A. M., Instructor in Physics (1911, 1911), B 115, Delevan Hotel (AS).
- McGahey, Florence Irwin, A. B., Assistant Registrar, Adm. 103, 1200 H street (Adm.).
- Mckelvie, Samuel, Lecturer in Swine Judging (1909, 1909), Agr. H. 104, 3101 N street (A).
- McPhee, Marguerite Cameron, A. M., Adjunct Professor in Rhetoric (1912, 1905), U 107b, 1618 L street (AS).
- Manning, Ernest Tibbets, M. D., Instructor in Medicine, 501 Paxton Block, Omaha (M).
- Marshall, William Warner, Executive Clerk of Nebraska Experiment Station, Agr. H. 201, 229 North Eleventh street (Adm.).
- Maxey, Edwin, D. C. L., Ph. M., Professor of Public Law and Diplomacy (1906, 1906), U 308, 1140 F street (L, AS, G).
- Mayland, Dorothy, A. B., Assistant in Germanics and Assistant in Educational Theory and Practice, 1501 S street (AS, T).
- Menlove, Lulu, Head of the Stenographic Bureau, Adm. 205, 605 South Tenth street (Adm.).
- Meyer, John Richard, Assistant in Registrar's Office, Adm. 103, 1809 Washington street (Adm.).
- Mickey, Clark Edwin, B. Sc. in M. E., B. Sc. in C. E., Adjunct Professor of Applied Mechanics (1911, 1908), M 101, 1337 South Eleventh street (E).
- Miller, Harry M., Assistant to Purchasing Agent, Adm. 202, Y. M. C. A. Building (Adm.).
- Milroy, William Forsyth, M. D., Professor of Clinical Medicine and Physical Diagnosis, 454 Brandeis Theater Building, Omaha (M).
- Mogridge, George, M. D., Lecturer in Arrested Development, Glenwood, Iowa (M).
- \* Montgomery, Edward Gerrard, A. M., Professor of Experimental Agronomy.
- Moore, Burton Evans, Ph. D., Professor of Physics (1907, 1896), B 113, 1900 Euclid avenue (AS, E, G).
- Moore, Richard Channing, M. D., Professor Emeritus of Diseases of the Mind, 454 Brandeis Theater Building, Omaha (M).
- Moore, John Clyde, A. B., B. Sc., M. D., Clinical Assistant in Medicine, 429 Brandeis Building, Omaha (M).
- Morison, Charles Campbell, A. B., M. D., Instructor in Surgery (1910, 1910), 1701 Locust street, Omaha (M).
- Morse, George Hart, B. E. E., E. E., Professor of Electrical Engineering (1903, 1898), M 208, 350 North Twenty-eighth street (E, G).
- Needham, Daisy Jeanette, A. M., Instructor in European History (1909, 1907), L 308, 1528 E street (AS).
- Nesbitt, Orpha Ellen, B. Sc., Instructor in Home Economics (1909, 1909), H. E., 1129 J street (A).
- Noble, Edna Clara, B. L., Library Assistant, Agr. H., Home Economics Hall (Adm.).
- Ord, Maude Rennie, Secretary to the Chancellor, Adm. 101, 745 South Fifteenth street (Adm.).
- Orr, Hiram Winnett, M. D., Assistant Professor of the History of Medicine, (1909, 1905), M 300, 519 First National Bank Building (M).
- Owen, Frank Styles, M. D., Professor of Laryngology and Rhinology, 471 Brandeis Building, Omaha (M).
- Page, Ernest Clifford, Ph. M., LL. B., Lecturer in Medical Jurisprudence, 815 New Omaha National Bank Building, Omaha (M).

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\* Resigned.

- Patton, James McDowell, A. M., M. D., Instructor in Ophthalmology and Otology (1909, 1909), 563 Brandeis Building, Omaha (M).
- Payne, Walter Scott, Instructor in Foundry and Machine Shops (1901, 1901), M 108, University Place (E).
- Perin, Senator Willis, Superintendent of the University Farm, Agr. H., University Farm (A).
- Persinger, Clark Edmund, A. M., Associate Professor of American History (1909, 1901), U 210 (AS, T, E, G).
- Perusse, Francis Joseph, Ph. C., Adjunct Professor of Pharmacy (1911, 1908), U 3, 2740 Arlington avenue (M, AS).
- Peterson, Alfred Olaf, M. D., Instructor in Internal Medicine, 203 Ramge Building, Omaha (M).
- Pfeiffer, Laura Belle, A. M., Adjunct Professor of European History (1906, 1903), L 308, The Orlo (AS).
- Pilsbury, Laurence Bell, A. B., M. D., Adjunct Professor of Bacteriology and Pathology (1909, 1905), N 306, 1044 H street (AS, M).
- Pollard, Charles Whitney, A. B., M. D., Adjunct Professor of Obstetrics, 446 Brandeis Building, Omaha (M).
- Pollock, George, Clerk in Principal's Office, School of Agriculture, Agr. H. 207 (Adm.).
- Pool, Raymond John, A. M., Associate Professor of Botany, Curator of the Herbarium (1911, 1907), N 102a, 1451 Q street (AS).
- Potts, John Beekman, M. D., Clinical Assistant in Diseases of the Eye and Ear, in Dispensary, Omaha (M).
- Pound, Louise, Ph. D., Professor of English Language and Literature (1912, 1894), L 301, 1632 L street (AS, G).
- Power, John Franklin, Superintendent of Assembly Room, Temple High School, T, 117 North Seventeenth street (T).
- Powers, Joseph Horace, Ph. D., Professor of General and Experimental Zoology (1910, 1903), N 208a, 3150 R street (AS, G, M).
- Poynter, Charles William McCorkle, B. Sc., M. D., Professor of Anatomy and in charge of Department of Anatomy (1910, 1905), M 300, 719 South Sixteenth street (M).
- Puffer, Lewis Morgan, Ph. B., Instructor in Mathematics in the School of Agriculture (1911, 1911), 2931 S street (A).
- Pugsley, Charles William, B. Sc., Superintendent of Agricultural Extension and Head Professor of Farm Management (1911, 1908), Agr. H. 204, 3260 Starr street (A, G).
- Putnam, John Jacob, A. M., Adjunct Professor of Bacteriology and Pathology (1912, 1911), N 306, 327 North Eleventh street (M, AS).
- Rail, Ellis, B. Sc. A., Assistant Professor of Animal Husbandry (1910, 1908), Agr. H. 103, 1536 P street (A).
- Rasmussen, Jesse Ephraim, B. Sc. in M. E., Assistant Professor of Applied Mechanics and Machine Design (1911, 1907), M 401, 435 South Eighteenth street (E).
- Raymond, Anan Richard, A. B., Assistant in Chancellor's Office, Adm. 101, 435 South Seventeenth street (Adm.).
- Raymond, Carrie Belle, Director of Music (1908, 1894), T, 1414 L street (AS).
- Reed, Albert Alison, A. B., Inspector of Accredited Schools and Professor of Secondary Education, Acting Director of University Extension (1909, 1908), Adm. 203, 2741 Randolph street (T, AS).
- Reese, Elizabeth Irene, A. M., Adjunct Professor in Romance Languages and Literatures (1912, 1907), U 312, Gertrude Hall (AS).
- Reynolds, Clarence Clarke, Assistant in Physical Education, Y. M. C. A. Building.
- Richards, Grace, A. B., Instructor in Home Economics (1911, 1911), H. E., University Farm (A).

- Riddervold, Adolph Storm, Die Technische Hochschule, Hannover, Assistant Professor of Civil Engineering (1911, 1911), M 205, 217 North Twenty-fifth street (E).
- Robbins, Charles Augustus, Ph. M., LL. B., Professor of Law (1909, 1909), U 310a, 1825 G street (L).
- Rood, Adelaide C., Assistant in Library, L, 856 North Twenty-fifth street (Adm.).
- Rood, Grace, Library Assistant, L, 856 North Twenty-fifth street (Adm.).
- Rowan, Gertrude Norton, A. M., Assistant in Agricultural Extension, 1645 K street (A).
- Rowe, Edward Winfield, B. Sc., M. D., Instructor in Materia Medica, 301 Funke Building (M).
- Rubendall, Clarence, M. D., Clinical Assistant in Diseases of Nose and Throat, in Dispensary, Omaha (M).
- Runge, Lulu L., A. M., Instructor in Mathematics (1909, 1909), M 301½, 1501 S street (AS).
- \* Rutledge, Carson Alexander, Assistant to Purchasing Agent.
- Rutledge, Edward Markwood, A. B., Registrar and University Publisher, Adm. 103, 2344 Dudley street (Adm.).
- Sanford, Frederick Warren, A. B., Assistant Professor of Roman History and Literature (1906, 1906), U 205, 1728 South Twenty-sixth street (AS, G).
- Schalek, Alfred, A. M., M. D., Professor of Dermatology and Genito-Urinary Diseases, 514 Brandeis Theater Building, Omaha (M).
- Schrag, Andrew D., Ph. D., Assistant Professor of Germanic Languages and Literature (1910, 1908), U 108, 1230 L street (AS).
- Schramm, Eck Frank, A. M., Adjunct Professor in Geology (1912, 1908) Mus. 301, 512 Y. M. C. A. Building.
- Scipio, Lynn A., A. B., B. Sc. M. E., Assistant Professor of Mechanical Engineering (1911, 1908), M. E. 101, 1604 Elm street (E).
- Scott, Robert Douglas, A. M., Instructor in English Language and Literature (1911, 1911), L 301, Delavan Hotel (AS).
- \* Shedd, Claude Kedzie, B. Sc., Adjunct Professor of Agricultural Engineering.
- Sheldon, Addison Erwin, A. M., Lecturer in Political Science (1909, 1908), and Director Legislative Reference Bureau, U 6, 1319 South Twenty-third street (AS).
- Sherman, Lucius Adelno, Ph. D., LL. D., Dean of the Graduate College and Head Professor of English Language and Literature (1887, 1882) L 301, 1234 J street (AS, T, G).
- Shoemaker, Frank Henry, Stenographer and Clerk, Medical College, N 206, 835 South Twelfth street.
- \* Sjogren, Oscar Warner, Instructor in Agricultural Engineering (1909, 1909), Mach. H., 1436 S street (A).
- Skinner, Clarence Aurelius, Ph. D., Head Professor of Physics (1912, 1899), B 114, 1602 Popular street (AS, E, G).
- Slaymaker, Philip Kuhns, M. E., Associate Professor of Applied Mechanics and Machine Design (1911, 1907), M 309, 425 South Twenty-sixth street (E, G).
- \* Smith, Howard Remus, B. Sc., Professor of Animal Husbandry.
- Snyder, William Patton, A. B., M. S., Superintendent of North Platte Experimental Substation, North Platte (Adm.).
- Somers, Andrew Bartholomew, M. D., Professor of Obstetrics, 446 Brandeis Building, Omaha (M).
- Spencer, Bertram John, Demonstrator and Teacher of Construction in Physics, B 117, 1825 North Twenty-fourth street (AS).
- Sponsler, Olenus Lee, A. B., Associate Professor of Forestry, in charge of the department (1910, 1910), N 105, 2815 R street (A, AS, G).
- Stephens, George Ashbury, Ph. D., Assistant Professor of Political Economy (1912, 1909), U 101, 118 North Twenty-ninth street (AS).

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\* Resigned.

- Stevens, James Franklin, A. M., M. D., Adjunct Professor of Materia Medica, 304 Funke Building (M).
- Stiehm, Ewald Ortwin, A. B., Professor and Director of Athletics (1912, 1911), G, 627 South Twenty-eighth street (AS).
- Stokes, Arthur Charles, B. S., M. D., Associate Professor of Genito-Urinary Surgery and Surgical Anatomy, 503 Brandeis Building, Omaha (M).
- Stout, Oscar Van Pelt, B. C. E., C. E., Dean of the College of Engineering and Head Professor of Civil Engineering (1912, 1891), M 204, 1735 Euclid avenue (E, G).
- Stuff, Frederick Ames, A. M., Litt. D., Professor of English Language and Literature (1911, 1902), L 301, 434 South Twenty-eighth street (AS, T, G).
- Sturdevant, LaZelle Brantley, A. M., M. D., Assistant Professor of Animal Pathology (1908, 1906), Veterinary Hall 202, 2757 Holdrege street (A).
- Swenk, Myron Harmon, A. M., Associate Professor of Entomology (1911, 1908), and Assistant State Entomologist, N 303, 3028 Starr street (A, AS).
- Swezey, Goodwin De Loss, A. M., Professor of Astronomy (1896, 1894), Observatory, 2600 R street (AS, G).
- Swift, Cora B., A. B., Assistant Instructor in Romance Languages (1911, 1911), U 301, Gertrude Hall (AS).
- \* Tate, John Torrence, B. Sc., A. M., Assistant in Physics.
- Taylor, Charles William, A. B., Professor of School Administration and Principal of the Teachers College High School (1911, 1911), T, 1527 M street.
- Thompson, Bessie Enyeart, Secretary to Inspector of Accredited Schools, Adm. 203, 1124 N street (Adm.).
- Thornburg, Bertha Wilhelmina, Secretary Geological Survey, 1208 S street.
- Thornburg, Hazel Syrena, Assistant in Purchasing Agent's Office, Adm. 202, 1208 S street (Adm.).
- Tibbets, Addison Seabury, B. C. E., Lecturer on Professional Ethics, Richards Block (L).
- Tibbets, Anna Mary, A. M., Adjunct Professor in Education (1912, 1908), U 209, 529 South Fourteenth street (AS).
- \* Towne, Lockwood J., Ph. B., B. Sc. in C. E., Assistant Professor of Civil Engineering.
- Towne, Solon Rodney, A. M., M. D., Professor of Hygiene and State Medicine, 446 Brandeis Building, Omaha (M).
- Truelsen, Thomas, M. D., Instructor in Physical Diagnosis and Clinical Assistant in Medicine, 587 Brandeis Building, Omaha (M).
- Trumbull, Robert Samuel, A. M., Adjunct Professor of Agricultural Chemistry (1910, 1908), E. S., 2924 Clinton street (A).
- Tuckerman, Louis Bryant, Jr., A. B., Assistant Professor of Physics (1909, 1906), B 119, 2023 South Twenty-fourth street (E, G).
- Tuttle, Samuel Johnson, A. M., LL. B., Professor of Law (1909, 1909), Burr Block (L).
- \* Vennum, Vada Clegg, Assistant Registrar, School of Agriculture and Assistant Secretary to Faculty of College of Agriculture (Adm.).
- Virtue, George Olien Ph. D., Professor of Political Economy and Commerce (1909, 1909), U 101, 1207 D street (AS).
- \* Vollbehr, Margaret H., Stenographer in Teachers' Bureau (Adm.).
- Vore, Juliet Mitchell, Assistant in Registrar's Office, 601 South Twenty-ninth street (Adm.).
- Voss, Adolph Max, A. B., Assistant Inspector of Accredited Schools, Adm. 203, 2525 Vine street (Adm.).
- Votaw, William Ward, Assistant Superintendent in charge of Grounds, Buildings and Janitors, Adm. 207, 3044 Q street (Adm.).

\* Resigned.

- Waite, Herbert Harold, A. M., M. D., Professor of Bacteriology and Pathology (1907, 1903), N 306, 2144 B street (AS, M, G).
- Walker, Elda Rema, Ph. D., Assistant Professor in Botany (1910, 1906) and in charge of Botanical Library, N 103, 331 North Eleventh street (AS).
- Walker, George Heman, M. D., Adjunct Professor of Anatomy (1910, 1909), M 300, Ganter Building (M, AS).
- Walker, Leva Belle, A. M., Adjunct Professor in Plant Pathology (1911, 1907) and in charge of Botanical Storeroom, N 103, 331 North Eleventh street (AS).
- Wallace, Charles William, Ph. D., Professor of English Dramatic Literature (1912, 1901), L 301 (AS, G).
- Webster, Edith Lenora, A. B., Instructor in Geology (1912, 1909), Mus. 201, 534 North Twelfth street (AS).
- Webster, Hutton, Ph. D., Professor of Social Anthropology (1907, 1907), U 103, 641 South Thirteenth street (AS, G).
- Wekesser, Henry Peter, M. D., Demonstrator in Anatomy, M 300, 904 E street (M, AS).
- Welch, J. Stanley, B. Sc., M. D., Instructor in Physical Diagnosis (1910, 1910), 301 Funke Building (M).
- Westermann, Max, Assistant Secretary of the Board of Regents, Adm. 102, 1535 C street (Adm.).
- Westgate, Vernon Vilas, A. M., Assistant Professor of Horticulture (1910, 1908), Hort. H., 1431 R street (A).
- Wherry, William Penaluna, M. D., Instructor in Laryngology and Rhinology, 471 Brandeis Building, Omaha (M).
- Wiese, Otto, B. Sc., Assistant in Chemistry, C, 627 South Twenty-eighth street.
- \* Wilcox, Edwin Mead, Ph. D., Head Professor of Agricultural Botany and Botanist of the Experiment Station (1908, 1908), Agr. H. 307, 3261 R street (A, G).
- Willard, William Albert, Ph. D., Professor of Histology and Embryology (1909, 1902), N 204a, 1445 South Sixteenth street (AS, M, G).
- Williams, Terry Arthur, Voucher Clerk in Secretary's Office, Adm. 102, 3205 Vine street (Adm.).
- Willis, Eunice, Assistant in Stenographic Bureau, Adm. 205, 2228 S street (Adm.).
- Wilson, Ervin Fillmore, B. Sc., Instructor in Chemistry (1911, 1911), C, 1437 Q street (AS).
- Wilson, Harriet, A. B., Library Assistant, U 306, 1410 Q street (Adm.).
- Wilson, Henry H., A. M., LL. M., Professor of Law (1900, 1891), U 308, 1339 South Nineteenth street (L).
- Wolcott, Robert Henry, A. M., M. D., Acting Dean of the College of Medicine and Head Professor of Zoology (1909, 1894), N 206, 2100 B street (AS, M, T, G).
- Wolfe, Harry Kirke, Ph. D., Head Professor of Philosophy (1909, 1905), L 111, 1727 J street (AS, G, T).
- Yates, Halsey Edward, Captain of Inf., U. S. A., Professor of Military Science and Tactics (1909, 1909), 204 Armory, 633 South Seventeenth street (AS, A, E).
- Young, G. Alexander, M. D., Instructor in Mental and Nervous Diseases, Omaha (M).
- Young, Horace J., B. Sc., Instructor in Agronomy (1911, 1911), E. S., 324 West Seventeenth street, University Place.
- Zimmer, John Todd, B. Sc., Field Expert in Entomology (1911, 1911), Forty-second and Holdrege streets (A).
- Zimmer, Mary Virginia, A. B., Instructor in Mathematics and Physics in the School of Agriculture, Agr. H. 102, Forty-second and Holdrege streets (A, AS).

\* Joint Director of a state bureau for the study of Plant Diseases and Destructive Insects in connection with the Experiment Station.

## THE UNIVERSITY YEAR

The year's work of the various colleges and schools of the University in general falls into the following subdivisions:

**The First Semester**, beginning the third Wednesday of September, and continuing eighteen weeks. The Mid-Winter Commencement, for those finishing their work at the end of a first semester, is held on University Charter Day (February 15), except when it falls on Saturday or Sunday, in which case the exercises are held on the preceding Friday or the succeeding Monday.

**The Second Semester**, beginning about February 1, and continuing eighteen weeks. The Spring Commencement, for those completing a course at the end of a second semester, occurs on Thursday of the week of the regular June meeting of the Board of Regents. This meeting is held on the first Tuesday after the first Wednesday in June of each year.

**The Summer Session**, usually beginning the week following the spring commencement and continuing eight weeks. Graduation exercises for those completing their University course at the end of a summer session are held on the last Friday of the summer session.

## ADMISSION TO THE UNIVERSITY

Admission to the University is gained only through registration in some one of its seven colleges or four schools. The requirements for admission to these vary only in small degree, and may also be found by consulting the portion of the catalog devoted to the college or school which the student desires to enter. The requirements for admission to the various colleges are as given below. An entrance credit or "point" is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses a credit "point" is given for three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least eighteen weeks; in laboratory courses without recitation, the equivalent of fifteen single periods each week are required.

The following table of entrance requirements becomes effective September 1, 1912, for all undergraduate colleges of the University:

Required Subjects—	Points
English .....	4
History (European)* .....	2
Language (Foreign)† .....	6
Mathematics‡ .....	4
Science (Laboratory)§ .....	2
 Elective Subjects—	
Other subjects taught in an approved manner in an accredited secondary school .....	12
Total.....	30

Where two or more points in any one subject are shown among the elective points above, one semester's work will receive credit. It is preferred, however, that the subject be carried not less than one year.

**Accredited Schools.** The University maintains a list of "accredited" secondary schools whose graduates are admitted to any college or school of the University (and to nearly all of the colleges or universities of the United States) without entrance examinations in those subjects whose completion within such schools is properly certified. Unless a graduate of an "accredited" school a candidate for admission must be prepared to take entrance examinations in those subjects in which he desires entrance credits. "Accredited" schools are such as are, under annual inspection by the University inspector of accredited schools, found to have a well-balanced program of studies, satisfactory laboratory equipment and library

\*History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.

†Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined academic-Medical course unless excused by the committee on accredited schools.

‡Mathematics: For entrance to the College of Agriculture a third year (2 points) in Mathematics may be offered in place of the third year in foreign language. For entrance to the College of Engineering 6 points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.

§Science: It is recommended that Physics be offered in meeting the science requirement.

facilities, and a teaching force adequate in number and competent in scholarship and professional training to accomplish the work they are undertaking. This list of accredited schools is published yearly in the University Calendar, the University Journal, and the High School Manual. At present there are two lists of accredited schools: (1) those which prepare fully for the first year of University work; and (2) those preparing for the lowest classes carried at the University. Any public or private high school or academy desiring to be placed on the accredited list should make request to the Inspector of Accredited Schools. The High School Manual, giving detailed information in regard to accredited schools, including general and departmental suggestions as to courses of study and methods of instruction, and the list of accredited schools, is sent upon application to the Registrar.

Certificates of graduation from schools which are members of the North Central Association of Colleges and Secondary Schools and of Accrediting Associations of equal rank will entitle the holder to admission without examination.

**Four-year Accredited Schools.** The following four-year secondary schools approved prior to May 15 are accredited to the University for the year 1912-1913 to receive not to exceed 28 to 32 points of entrance credit, according to the work of the individual graduate:

Adams	Bellevue Academy	Chester
Ainsworth	Blair	Clarks
Albion	Bloomfield	Clay Center
Alliance	Bloomington	Columbus
Alma	Blue Hill	Cotner Academy (Bethany)
Ansley	Blue Springs	Cozad
Arapahoe	Brady	Crawford
Arlington	Bridgeport	Creighton
Ashland	Broken Bow	Creighton Academy (Omaha)
Atkinson	Brownell Hall (Omaha)	Crete
Auburn	Burwell	Culbertson
Aurora	Butte	Dana Academy (Blair)
Bancroft	Cambridge	Davenport
Battle Creek	Cedar Rapids	David City
Beatrice	Central City	Diller
Beaver City	Chadron	

## THE UNIVERSITY OF NEBRASKA

Doane Academy (Crete)	Kenesaw	Oxford
Edgar	Kimball County	Papillion
Elgin	Laurel	Pawnee City
Elmwood	Lawrence	Pender
Emerson	Lexington	Pierce
Exeter	Lincoln	Plainview
Fairbury	Louisville	Plattsmouth
Fairfield	Loup City	Ponea
Fairmont	Luther Academy (Wahoo)	Randolph
Falls City	Lyons	Ravenna
Franklin	McCook	Red Cloud
Franklin Academy	Madison	Sacred Heart Academy (Omaha)
Fremont	Merna	Sacred Heart High School (Omaha)
Friend	Minden	
Fullerton	Mt. St. Mary's Seminary (Omaha)	St. Catherine Academy (Jackson)
Gates Academy (Neligh)	Nebraska City	St. Edward
Geneva	Nebraska Military Academy (Lincoln)	St. Mary's Academy (O'Neill)
Genoa	Nebraska Wesleyan Academy (University Place)	St. Paul
Gibbon	Neligh	St. Theresa's High School (Lincoln)
Gordon	Nelson	Sargent
Gothenburg	Newman Grove	Schuyler
Grand Island	Norfolk	Scottsbluff
Grand Island Academy	North Bend	Seward
Greeley	North Platte	Shelton
Gretna	Oakdale	Sidney
Guide Rock	Oakland	Silver Creek
Hartington	Ogallala	South Omaha
Harvard	Ohiowa	Spalding Academy
Hastings	Omaha	Spencer
Hastings Academy	O'Neill	Springfield
Havelock	Ord	Stanton
Hebron	Orleans	Sterling
Holdrege	Orleans Seminary	Stromsburg
Hooper	Osceola	Superior
Humboldt	Overton	Sutton
Immaculate Conception Academy (Hastings)	Syracuse	

Table Rock	Ulysses	Weeping Water
Teachers College High School, The University of Nebraska	University Place	Academy
Tecumseh	Valentine	West Point
Tekamah	Valley	Wilber
Tilden	Wahoo	Wisner
Trenton	Wakefield	Wood River
	Wayne	Wymore
	Weeping Water	York

By approved action of the University Senate in June, 1911, the following was adopted:

1. After September 1, 1912, twenty-eight points shall be the minimum requirement for conditional admission to the Colleges of Arts and Sciences, Engineering, and Agriculture, in the University.

2. There shall be maintained a list of Junior Accredited Schools, on the basis of three years of secondary school work. The graduates of these schools may receive conditional admission to the University upon the completion of sufficient additional work in an accredited school to secure the minimum of twenty-eight points.

**Junior Accredited Schools.** The following three-year secondary schools approved prior to May 15 are accredited to the University for the year 1912-1913, to receive from 22 to 28 points of entrance credit, according to the length of the course and the work of the individual graduate:

Bartley	Dodge	Howells
Beemer	Douglas	Humphrey
Benkelman	Dunbar	Jackson
Benson	Eustis	Kearney Military Academy
Bertrand	Ewing	
Brock	Florence	Leigh
Callaway	Ft. Calhoun	Liberty
Campbell	Gering	Lynch
Cedar Bluffs	Giltner	McCool Junction
College View	Grafton	Mason City
Cook	Greenwood	Mead
Craig	Hardy	Milford
Curtis	Herman	Mitchell
Dawson	Hickman	Morrill
DeWitt	Holbrook	North Loup

Orchard	Shelby	Tobias
Osmond	Shickley	Utica
Pilger	Sioux	Waterloo
Republican City	Stella	Wausa
Riverton	Stratton	Western
Rulo	Stuart	Wilsonville
Rushville	Sutherland	
Scribner	Talmage	

## REGISTRATION

Candidates for admission to any of the colleges or schools of the University must forward their entrance credentials to the University Registrar. This should be done at least one month in advance of the opening of the candidate's first semester. On the opening or registration days of the semester, the candidate presents himself in person, at the Registrar's office (Administration Hall), where he receives instructions as to such other steps as may be necessary to complete his registration. Registration is governed by certain regulations and restrictions in each college and school of the University, and those of the college the candidate expects to enter should be studied carefully before the work of registration is undertaken.

## FEES AND EXPENSES

**Fees.** Fees of varying amount are charged for various purposes in all of the colleges and schools of the University. The amount in any college or school may be found by consulting the portion of the catalog devoted to that college or school. All fees must be paid to the secretary at the time of registration. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance, the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a class or from the University.

### UNIVERSITY FEES

#### General

##### AGRICULTURE, SCHOOL OF

Winter course, registration.....	\$4.00
Regular course, incidental, per year.....	6.00
Special registration fee.....	2.00

## GENERAL INFORMATION

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### CERTIFICATE

For all special courses.....	\$1.00
Teachers' certificate (with cover).....	2.00

### DIPLOMA

Diploma fee, first degree.....	5.00
Diploma fee, for advanced degrees.....	10.00
Diploma fee, <i>in absentia</i> or <i>cum laude</i> , additional.....	10.00

### EXAMINATION (SPECIAL)

Each course, general colleges.....	1.00
Each subject, Law College.....	2.00
Advanced standing, Law College.....	10.00

### FINE ARTS

Drawing and Painting, including use of studio:	
One lesson a week, each semester.....	10.00
Two lessons a week, each semester.....	18.00
Three lessons a week, with use of studio daily, each semester.....	25.00
China Painting, including use of studio:	
One lesson a week, each semester.....	12.00
Two lessons a week, each semester.....	23.00
Three lessons a week, each semester.....	33.00

### HIGH SCHOOL

Tuition, each semester.....	13.50
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### INCIDENTAL

Incidental fee, each semester.....	3.00
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### LAW, COLLEGE OF

Tuition, first semester.....	25.00
Tuition, second semester.....	20.00
For one semester only.....	25.00
Special students, or one topic, each semester.....	12.00

### LIBRARY

Library fee, each semester.....	1.00
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### MATRICULATION

Matriculation fee .....	5.00
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*THE UNIVERSITY OF NEBRASKA*

## MEDICINE, COLLEGE OF (LINCOLN)

Tuition, first semester.....	\$25.00
Tuition, second semester.....	20.00
Tuition, for one semester only.....	25.00
Tuition, for Anatomy only (except courses 15 and 16), each semester	5.00

## MEDICINE, COLLEGE OF (OMAHA)

Fees for all required exercises, including all laboratory and clinic fees .....	80.00
Breakage deposit .....	10.00
Examination fee .....	10.00

## MILITARY SCIENCE

Drill fee, for the year.....	1.00
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## NON-RESIDENT

Non-resident fee, undergraduate, each semester.....	15.00
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## PHARMACY, SCHOOL OF

Tuition, first semester.....	20.00
Tuition, second semester.....	15.00
Tuition, for one semester only.....	20.00

## REGISTRATION

Special registration fee.....	3.00
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**Laboratory**

## AGRICULTURAL CHEMISTRY

Courses A, B, \$3; 2, 4, \$5; 5, 6, \$10.

## AGRICULTURAL ENGINEERING

Courses 1, 2, 11, \$3; 3, 5, 6, \$1; 4, 18, \$2; 9, 10, 12, 16, \$4.

## ANATOMY

Course 1, \$15; 2, \$10; 3, \$5; 4, 8, \$3; 11, 12, (graduated); 15, 16, \$15.

## APPLIED MECHANICS

Courses 15, 17, 18, 20, \$3.

## BACTERIOLOGY AND PATHOLOGY

Course 1, \$8; 2, \$10; 2a, 3, 4, \$4; Dental Bacteriology, \$3.

## BOTANY

Courses 1, 2, 15, 16, 21, 22, 25, 35, 36, 37, \$2; 3, 4, 5, 6, 19, 20, 23, 24, \$3; 13, 14, 31, 32, 33, \$1; B, 39, 40, 41, 42, 43, 44, 47, 48, 49, 50, for each credit hour a semester, \$1.

## CHEMISTRY

Courses A, B, 1, 2, 21, 34, \$5; 5, 15, 16, 23, 27, 41, \$2; D, 1 and 2, 3, \$10; 14, \$8; 20, \$4; 7, 8, 22, 23a, 39, 40, for each credit hour a semester, \$1.

## CIVIL ENGINEERING

Courses 5a, 6a, 8, 30, \$3.

## ELECTRICAL ENGINEERING

Courses 6, 8, 9, \$5.

## ENTOMOLOGY

Courses 1, 2, 4a, 5, 6, 7, 8, \$2; 3, 4, 10, 11, 13, \$1; 15, 16, 17, 18, for each credit hour a semester, \$1.

## GEOGRAPHY AND ECONOMIC GEOLOGY

Courses 1, 2, 5, 6, 7, 8, 21, 22, 25, 26, 28, \$1.

## GEOLOGY

Courses 1, 1a, 13, 18, 33, \$1; 15, 16, \$2.

## HISTOLOGY AND EMBRYOLOGY

Course 1, \$4; 2 (according to credit), \$3 to \$6; 1a, 11, 13, 15, \$2; 12, \$4; 11a, 14, \$3.

## HOME ECONOMICS

Courses 1, 2, 7, 8, 11, 12, 15, 16, \$2; 3, 4, \$3; 5, 6, \$5; School of Agriculture each year, \$2.

## MECHANICAL ENGINEERING

Courses 1, 2, 3, 5, 16, 17, \$6; 2a, 3a, \$2; 4, 15, \$2.

## PHARMACOLOGY

Course 1, \$5; 2, \$10; 4, \$2; 5, 6, \$3.

## PHARMACY

Courses 21, 22, 23, 24, \$7; 25, \$3; 26, \$2; 28, \$6; 29, \$8; 31, 32, 33, 34, \$5.

## PHYSICS

Courses 1, 2, 3, 4, 6, 11, 13, 14, 17, 18, \$4; 1a, 2a, 3a, 4a, \$1; 12 (3 hours credit), \$4; 12 (4 hours credit), \$8.

## PHYSIOLOGY

Courses 1, 2, \$5; 12, \$9; 13, \$6; 14 (for Medics), \$2.

## PSYCHOLOGY

Course 1, \$1.

## ZOOLOGY

Courses 1, 2, 7, 12, 14, 15, \$2; 3, \$3; 6, \$5; A, \$4; 21, 22, 31, 36, \$1; 9, 10, 15, 17, 18, 25, 26, 27, 28, 43, for each credit hour a semester, \$1.

**Board, Room, Employment.** The average cost of a year's attendance at the University (not including fees of any kind) is about \$300. Many students reduce this amount. Board and lodging may be had among families of the city. In September the Young Men's Christian Association and the Young Women's Christian Association make, under the direction of the Registrar, a canvass of the city and keep on file lists of rooms and boarding places. The Young Men's Christian Association maintains an employment bureau. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the University do not, however, undertake to find employment for students. A student is advised not to enter the University unless he can count upon resources for one semester—at least \$150.

## UNIVERSITY STUDENT ORGANIZATIONS

**Religious.** The Young Men's and Young Women's Christian Associations, non-sectarian and voluntary organizations of Christian men and women, members of the University, organize and conduct Bible study among the students, hold public meetings, help students to find suitable rooming and boarding places, give free aid to students in search of employment and publish an annual Students' Handbook containing information especially valuable to new students. Inquiries should be addressed to the Secretary of either the Young Men's or the Young Women's Christian Association, Station A, Lincoln, Nebraska. The Students Volunteer Movement is composed of those who have declared their purpose to become missionaries, and meets once a week for devotional and critical Bible study.

**Literary and Social.** The Palladian and the Union are open literary societies meeting weekly on Friday evenings in their rooms in the Temple. The University Girls' Club is an organization formed to cultivate friendly and helpful relations among women students irrespective of department, course of study, or church or society affiliations. All women students and women members of the faculties are eligible to membership. The Dramatic Club is an organization of students interested in amateur theatricals. It gives several plays each year. Membership is by election. The English

Club is a writers' club, composed of advanced students and of instructors interested in writing. The club meets regularly to hear and discuss contributions by its members. Membership is by election. The Deutsche Gesellige Verein, the German Club, the Komenian Club and the Tegner Society are literary and social organizations, whose main purpose is the study of history and language of Germany, Bohemia, and Scandanavia, respectively.

**Scientific.** The Graduate Club, the Debating Club, the Agricultural Students' Association, the Botanical Seminar, the Chemical Society, the Chemical Journal Club, the Engineering Society, the English and Latin Seminaries, the Latin and Physics Colloquia, the Microscope, Forestry and Zoological Clubs are more specially collegiate or departmental organizations, concerning which information is given in those portions of the catalog devoted to the different colleges and schools.

**Musical.** The University Chorus, open to all students, gives each year several cantatas and oratorios and participates in the May Music Festival. The Cadet Band, a military band, gives several home concerts annually and furnishes music on occasions of general University interest. The Glee and Mandolin Club gives concerts in Lincoln and throughout Nebraska and adjoining states.

**Military.** The Pershing Rifles is an organization of cadets composed of the best-drilled men in the University Cadet Battalion. Membership is by election. The Workizer Rifles is a similar organization in the School of Agriculture Cadet Battalion.

## HONORS AND PRIZES

**Fellowships and Scholarships**, established in the different departments of the University, are available to students registered in the Graduate College. Fees are remitted to Fellows and Scholars for courses listed in the Graduate College only. Fees will be required for all undergraduate laboratory work.

These positions are awarded to students recommended by the respective heads of departments. They are not gifts or benefactions from the state, but are means whereby services are rendered to the University and at the same time the holder is assisted in some special line of work. The instruction required of Fellows and Scholars is confined to the department in which they are pursuing advanced work. For additional information see the announcement of the various colleges.

**The William Jennings Bryan Prize.** For the best essay on the science of government is offered annually the income of \$250, the gift of Hon. William Jennings Bryan. For detailed information apply to the professor of American history.

**Prizes for Excellence in Bohemian,** offered by the Bohemian Council of Higher Education. (1) To the student of the first year Bohemian class who attains the highest rank during both semesters, the Council of Higher Education offers a prize of books representing the best Bohemian literature. In 1910-1911 this prize was awarded as follows: First, Belle Pipal; second, Vlasta Sterba and Louise Dusatko.

**The Andrew Lanquist Prize in Swedish Language and Literature.** A prize of twenty-five dollars, the gift of "Föreningen för Svenskhetens bevarande i Amerika," is awarded yearly to the student who receives the highest standing in Swedish language and literature. The prize is awarded under the following regulations:

1. The student shall have pursued for at least one year the most advanced courses in Swedish given at the University.
2. He shall be taking at least twelve hours work in the University.
3. His general average in all subjects shall be 80 per cent or above.

In 1910-1911, this prize was awarded equally to Martina Caroline Swenson and Grace Esther Munson.

**Athletic and Military Trophies.** Cups or other trophies are offered for the winners in the annual Freshman-Sophomore Contest, Class Field Day, Company Drill, Individual Infantry Drill, and Individual Company Drill.

**The Mann and Junod Prize.** A prize of one hundred dollars, the gift of Messrs. Mann and Junod, of Omaha, is offered for the best essay on "The Function of Life Insurance in Modern Economic Affairs," and the following rules have been adopted to govern the contest:

1. The contest will be open to graduate and undergraduate students of the University.
2. The essays must not exceed 5,000 words in length, must be typewritten, with a table of contents and a bibliography, and must be sent in not later than May 1 each year.
3. The prize will be awarded upon the decision of judges selected by the Department of Political Economy and Commerce.
4. The donors will have the right to publish the prize essay, if they wish to do so.

5. The prize will be withheld if no essays of sufficient merit are presented.

**Other Prizes** are offered by the College of Law and the College of Medicine for excellence in the work of those colleges. See College of Law and College of Medicine.

**Honorary Societies.** Phi Beta Kappa, founded at William and Mary College in 1776, has for its object the promotion of scholarship among the students and graduates of American colleges; the Alpha of Nebraska chapter, founded in 1896, annually elects to its membership the one-tenth to one-sixth of the graduating class whose scholarship rank is highest. Sigma Xi is a similar organization for the encouragement of original investigation in Science, pure and applied, and Theta Kappa Nu for promotion of scholarship in Law. Delta Sigma Rho is a national society organized in 1906 by universities of the West to promote among college students the art of effective public speaking and debate, and its membership is confined to authorized representatives of universities and colleges in inter-collegiate contests in debate or oratory. Phi Alpha Tau is an inter-collegiate honorary fraternity, organized by members of the University Debating Squad in 1906 to promote the art of public speaking and debate, and confines its membership, which is limited and by election, to students who have exhibited special interest in public speaking and debate and who have shown special aptitude for that work.

### LOAN FUNDS

Hon. John R. Webster, of Omaha, Dr. John Alexander Low Waddell, of Kansas City, and Hon. William Gunn Whitmore, of Valley, have given the sum of \$1,000 each to be used as a permanent loan fund for students needing assistance. Mr. Webster's donation applies to all students in the University, while the donations of Dr. Waddell and Mr. Whitmore are limited to students in the Engineering College. The interest received from the loaning of this money goes to increase the fund. The full rules for its administration and application blanks may be obtained from the office of the Secretary. Loans will only be made to students in need of assistance and to those who have been matriculated for at least one full year. Upper classmen will be given preference in the making of loans. The moral character of the applicant, his habits for temperance and industry, and his assiduity and success in his studies will also be determining factors. The amount loaned to one student will, except in extraordinary cases, be limited to \$100 per semester. The note given by the borrower will bear six per cent interest, payable annually; the loan is to be wholly repaid two years after the student graduates or leaves school.

## PUBLICATIONS

**General University Publications.** In addition to its annual Calendar and other periodic Bulletins, the University publishes monthly (except July and August) the University Journal, devoted to the relations of the University with the secondary schools of the state and with the University Alumni. General student publications include the Daily Nebraskan, The Cornhusker (annual), and the Students' Handbook (annual). One number of the Bulletin of the University is entitled The High School Manual, and is devoted to high school problems.

**Departmental or Special Publications** are the University Studies (see the Graduate College), Studies from the Zoological Laboratory, Reports of the Botanical Survey of Nebraska, the Flora of Nebraska, the Nebraska Geological Survey and the Bulletin of the University College of Medicine. The Nebraska Engineering Blue Print is a semi-annual publication by the Engineering Students.

## MISCELLANEOUS INFORMATION

**Students' Mail** sent direct to the University should be addressed "Station A, Lincoln Nebraska." This United States post-office is in effect part of the University, occupying University Hall 104, convenient to all students.

**Convocation.** University convocations are held regularly in the Chapel at eleven o'clock Tuesday and Thursday. An interesting address on some important topic of the time or a musical program forms the nucleus of these exercises. Special convocations are called as occasions of importance arise.

**Women's Parlors.** In Soldiers' Memorial Hall a beautiful parlor has been furnished by members and friends of the University for the use of all women members of the University without reference to religious or other affiliations. Also, a study room open to all university women is provided in the basement of University Hall.

**Care of the Sick.** The University much needs an infirmary for the care of students when ill. Such students are, however, carefully provided for even at present, on application to the chancellor, at whose office all cases of serious illness should be reported.

**Visitors to the University.** Visitors are always welcome. High-school classes, clubs, or parties should, a few days in advance, inform the Registrar of their coming.

**Meetings of State Societies.** Many state societies hold their annual meetings at the University. The University is always pleased to extend its hospitality and the use of its buildings to any of these or to any similar organization.

**The Alumni Association,** organized in 1874, is composed of the graduates of the University, including graduates receiving higher degrees. The annual meeting is held the day before Commencement Day in June.

## RULES AND REGULATIONS GOVERNING STUDENTS

The proper University authorities have established several definite rules and regulations for the government of student conduct and activities within the University. Each student is expected to familiarize himself with these rules and is held responsible for compliance with their provisions. The rules and regulations are as follows:

### Registration

1. Each student should register at the Registrar's office at the beginning of each semester on one of the days set apart for registration. To promote prompt registration a fee of three dollars (\$3) is charged a student who, unless excused by the Chancellor, for any reason seeks to register later.
2. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in registration once made, dropping or adding a study, is regarded as a re-registration.
3. No first or second year student (freshman or sophomore) may register for more than five subjects (exclusive of drill or physical training). No first year student may register for more than 16 credit hours, except on written permission of the dean of his college, and then for a maximum of 18 credit hours. All students above first year who have attained an average grade of 80 per cent during the previous year may register for 18 credit hours.  
*3a.* No first or second year student may register for more than one one-hour course (exclusive of drill and physical training) in any one semester; and no third or fourth year student may register for two one-hour courses in any one semester.
4. A student who fails in a required subject must register for that subject again the first time it is offered.
5. A student who is conditioned ("C") or incomplete ("I") in a subject must remove the condition or incomplete by the end of the first semester in which that subject is again offered or it becomes a failure.

6. A student cannot attend a class for which he is not registered. The official certificate of registration, signed by the Registrar, is the only evidence of registration to be accepted from the student by an instructor. Credit is not granted for a subject pursued without registration.

7. No student is allowed to change from one group of studies to another or from one college to another without written permission by the dean of each college concerned. A student changing college must also pay a new matriculation fee of five dollars (\$5).

8. A student who, by virtue of special circumstances, is allowed to register for less than the minimum twelve (12) hours required of regular students, receives this permission only for such time as the special conditions continue. No person is allowed to abuse the privilege of registering as a special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics or for any other reason.

9. Every detail of registration and record from the time the student leaves the high school until he graduates from the University, together with the interpretation of all the rules relating thereto and the publication of the same, are under the supervision of the Registrar, who is responsible directly to the Chancellor.

### **Military Drill and Physical Training**

10. Each undergraduate man in the University proper is required to receive military instruction during four semesters. Each man in the School of Agriculture shall receive military instruction during his attendance, up to a total of four semesters. Excuses from this requirement are granted to either class of students only on the grounds of conscientious scruples, physical disability, or other reasons equally valid. Such excuses shall be granted only upon written application to the commandant of cadets, in whom shall be vested the power to decide such cases. Such decisions may be appealed to the Chancellor only on presentation by the student of a written statement from the commandant, containing the facts in the case and the reasons for refusing to grant the excuse. Military drill service is not required from non-matriculated students attending the short courses in agriculture.

11. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved, each undergraduate man must fulfill this requirement in his Freshman and Sophomore years. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Thorough drill else-

where than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

All undergraduate women students of the University must fulfill the requirements in physical training in the Freshman and Sophomore years unless reprieved or excused.

### Attendance

12. Regular attendance is required at all recitations, laboratory and field work.

13. All absences are reported to the Registrar weekly by instructors.

14a. Temporary leave of absence may be granted a student by the dean of his college. This leave of absence is not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases.

14b. Each unexcused absence in any subject may, in the discretion of the instructor, deduct three points from the student's semester grade in that subject.

15. Permission to withdraw from the University before the close of a semester is granted by the Registrar.

### Examinations

16. Examinations or tests in every class in the University are held at the option of the instructor each semester as follows: (1) at the middle of the semester; (2) at the close of the semester.

17. Sessions of class work of the second semester shall be held regularly till 6 p. m. Tuesday of commencement week. Semestral or final examinations in any semester, if held, shall be during the last class sessions. Individual examinations can not be demanded by the student as a matter of right. Such examinations are permitted, if at all, only as a matter of comity. They are given by the permission and at the convenience of the instructor after the regular examination of the class or section. The instructor's permission being obtained, the student desiring individual examination must pay the required fees to the Secretary. On presentation of a receipt therefor to the instructor, the latter is authorized to proceed with the examination.

18. No student is allowed to take any book or paper into the examination room unless the instructor expressly so directs.

### Reports—Standing

19. On the attendance and standing of each student in each course the instructor makes to the Registrar the following regular reports:

A. At the end of each week he reports the absences for the week and all cases of delinquency.

B. At the middle of the semester he reports all students who are below a passing grade as shown by class-room work and the mid-semester examination or test.

C. At the end of the semester he reports the proficiency each student has attained. All grades above passing (60)\* are reported to the Registrar in figures, either in straight percentages or in multiples of five. Below passing the following are the markings: F—Failure (below 60); C—Conditioned; I—Incomplete. Also, A—Withdrew in good standing; D—Delinquent at time of withdrawal.

### Honorable Dismissal

20. Students not minors being in good and honorable standing may secure honorable dismissal from the University at their own request, and minors at the request of parents or guardians.

### Discipline

21. A student who at mid-semester is thru neglect delinquent in one-half or more of his work (as determined by the number of hours) is dropped from the University. If he is delinquent in two or more subjects but less than one-half of his work, he is placed upon probation for one month.

22a. A student who, in any semester, is not satisfactorily carrying at least twelve (12) hours is debarred from representing the University that semester on any athletic or debate team or board, on a glee, mandolin or dramatic club, on the staff of any college publication or in any other University organization; moreover, a student who fails to pass in twelve (12) hours at the end of a semester is debarred from representing the University in any capacity the semester following. In case a student in any of the above named student enterprises fails, any semester, to carry satisfactorily the work or any part thereof for which he is registered, the Committee on Delinquent Students may at its discretion lessen the hours of such student's registration.

\* See statement concerning "Grades" in the College of Arts and Sciences and "The University Teachers' Certificate" in the Teachers College.

22b. Women students in the University shall not take part in out-of-town performances such as dramatic and glee club presentations, elocution recitals, etc., during the regular sessions of the University, and at other times only after permission is granted by the Committee on Student Organizations and Social Functions.

22c. All University functions, including social gatherings of departmental clubs, shall be held on Friday and Saturday evenings.

All meetings of the following named University clubs and organizations holding later than 7.30 p. m. shall occur on Friday and Saturday evenings except by special permission of the Committee on Student Organizations:

Agricultural Club, Botanical Seminar, Chemistry Club, Dramatic Club, Electrical Engineering Society, English Club, Engineering Society, Entomological Society, Forestry Club, German Club, Germanistische Gesellschaft, Komensky Club, Latin Club, Mechanical Engineering Society, Medical Society, Pharmaceutical Society, Platform Club, Students' Debating Club, Tegner Society.

23. Whenever a student is dropped from the University on account of vicious or wanton delinquency his name is published.

### Suspension—Expulsion

24. Whenever at the middle or end of any semester a student is delinquent in half or more of his hours of registration, his name is automatically dropped from the rolls of the University. Such delinquent student may be reinstated by the Committee on Delinquent Students. A student may be refused registration, suspended, or expelled for infringing the good order and comity of the University, as by dishonesty in written work, the acts inhibited in section 25 below, or any conduct injurious to the work or the good name of the University.

### Dishonesty in Written Work

25. The case of any student detected in dishonestly giving or receiving aid during an examination must be immediately reported to the dean of his college by the instructor in charge of the examination or by the head of the department with a succinct account of the evidence in the case. In cases of clear guilt the deans affix penalties in accordance with deserts.

Dishonesty in written work, themes, essays, reports, theses and the like, is treated in the same way as dishonesty in examinations. The turpitude consists in the presentation as one's own of work or results really borrowed in whole or in part from another.

### **Prohibitions**

26. Students must not frequent gaming houses or saloons, or brothels, or engage in gambling, or use intoxicating drinks, or do any other acts inconsistent with good morals. A student must not neglect a call of the Chancellor, Dean, Registrar, or other University officer, or of any professor in the faculty of a college in which he is registered.

### **Petitions—Meetings**

27. The right of respectful petition shall be neither denied nor abridged by the regents, faculties, or other University authorities. But no extraordinary meetings of students shall be held on the University grounds or within any University buildings for any purpose whatever, except after and in pursuance of a written or printed notice or call stating clearly the business of such meeting. Said notice must be signed by at least three students, approved in the executive office, and be posted openly on the University bulletin board. Such meetings shall always be open and subject to immediate adjournment by the Chancellor in case of disorder.

### **Political Gatherings**

28. It is the policy of the University to promote the fullest and freest discussion of the matters which relate to the public welfare, but at the same time to avoid the use of its property for the partisan promotion of any subject which is under controversy. Hence political or other meetings designed to influence elections directly are prohibited in University buildings. This shall not be interpreted as forbidding the discussion of public topics in an academic way, nor shall it be interpreted as preventing students from organizing freely to promote their political ideas, provided such meetings as they may hold are not conducted on University premises.

### **Boards of Control**

29. The University Athletic Board, composed of six faculty members, one alumnus, and five student members elected annually, controls athletics in the University.

30. The University Debating Board, composed of seven faculty members (ex-officio) and of five student members elected annually, supervises all public debates between students of the University and other institutions.

31. The Student Publication Board, composed of five faculty members and three student members, has general oversight over all publications by University students.

**Organizations, Social Functions**

32. All non-athletic organizations and social functions are under the supervision of the Senate Committee on Student Organizations, which may enact such special rules, subject to the Chancellor and the Board, as it may deem necessary for the proper control of such organizations and functions. Organizations coming into financial relations with the public shall submit their accounts to this committee for audit not later than May 1st of each year. Failure to comply with this rule shall deprive the person or persons responsible of the right of honorable dismissal from the University. Supplies for students, of a semi-official character, shall be furnished through the office of the Purchasing Agent. No person registered in any secondary school of the University shall become a member of any fraternity or sorority.

**Library and Use of Books**

33. Any student regularly registered may take out two books at the closing hour of a day, such books to be returned promptly at the next opening hour. Only two books at a time may be taken out under this privilege.

On written permit from the head of a department any student may draw one book at a time to be kept not more than one week. Such permit is good only for books pertaining to the department issuing the permit.

A student leaving Lincoln for more than one week must on or before leaving return all the library books in his possession.

The following classes of books are not circulated: reference books shelved in reading room; periodicals, whether bound volumes or current numbers.

Books especially reserved for class use may not be taken out except over night.

Talking is not permitted in the library.

The library board may, on recommendation of the librarian, suspend from library privileges any person who persistently disregards these rules or in any way mishaves.

**Announcements—Notices—Residence**

34. The residence of men and women students in the same lodging houses (as distinguished from families) is not approved and not, as a rule, permitted.

35. A landlady rooming women students is expected to provide for their use, till half after ten on Friday, Saturday, and Sunday evenings, or on two of these evenings, a reception room properly warmed and lighted.

36. Women students in these houses will receive gentlemen callers only in the reception rooms. Gentlemen will take notice and govern themselves accordingly.

37. Any official University announcement or notice is considered as duly published and as binding upon all students when it is placed upon the official bulletin board or when it is announced at convocation.

38. Emergency or specially important meetings of the University body are called by the display of red-letter notices on all bulletin boards. Obedience to such calls is obligatory on all students.

39. No notice of a meeting of any class or any student organization can be placed upon any of the official bulletin boards unless countersigned by the Registrar.

40. No private advertising announcements can be placed upon any of the University bulletin boards.

# **The Graduate College**

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy.

JOHN EDWIN ALMY, Ph. D., Professor of Experimental Physics.

FREDERICK JAMES ALWAY, Ph. D., Head Professor of Agricultural Chemistry.

LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political Science.

GROVE ETTINGER BARBER, A. M., Head Professor of Roman History and Literature.

ERWIN HINCKLEY BARBOUR, Ph. D., Head Professor of Geology, and Curator of the University Museum.

FRANKLIN DAVIS BARKER, Ph. D., Associate Professor of Zoology.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University.

GEORGE BORROWMAN, A. M., Assistant Professor of Chemistry.

WILLIAM CHARLES BRENKE, M. S., Ph. D., Associate Professor of Mathematics.

JUDD NOBLE BRIDGMAN, M. S., Assistant Professor of Civil Engineering.

LAWRENCE BRUNER, B. Sc., Head Professor of Entomology and Entomologist of the Experiment Station.

PHILO MELVYN BUCK, A. M., Professor of Rhetoric.

HOWARD WALTER CALDWELL, A. M., Head Professor of American History.

ALBERT LUTHER CANDY, Ph. D., Professor of Pure Mathematics.

LEON WILSON CHASE, B. Sc., Professor of Agricultural Engineering.

GEORGE RICHARD CHATBURN, B. C. E., A. M., C. E., Head Professor of Applied Mechanics and Machine Design.

GEORGE EVERETT CONDRA, Ph. D., Head Professor of Geography and Economic Geology.

CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures.

- BENTON DALES, Ph. D., Professor of Chemistry.
- WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts.
- ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics, and Dean of the College of Arts and Sciences.
- CHARLES LEE DEAN, B. Sc., in M. E., Assistant Professor of Mechanical Engineering.
- WILLIAM JACOB DUPPERT, M. S. F., Adjunct Professor of Forestry.
- LUCILE EAVES, M. S. C., Ph. D., Associate Professor of Practical Sociology.
- CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics.
- MINNIE THROPP ENGLAND, Ph. D., Instructor in Political Economy.
- FRED MORROW FLING, Ph. D., Head Professor of European History.
- MILLER MOORE FOGG, A. M., Professor of Rhetoric.
- CHARLES FORDYCE, Ph. D., Professor of Educational Theory and Practice and Dean of the Teachers College.
- LAURENCE FOSSLER, A. M., Head Professor of the Germanic Languages and Literatures.
- MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry.
- PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.
- SHERLOCK BRONSON GASS, Ph. B., Assistant Professor of Rhetoric.
- AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.
- PAUL HENRY GRUMMANN,\* A. M., Professor of Modern German Literature.
- EDGAR LENDERSON HINMAN, Ph. D., Professor of Logic and Metaphysics.
- JAMES DAVID HOFFMAN, B. M. E., M. E., Head Professor of Mechanical Engineering and Practical Mechanics.
- VERNON LEO HOLLISTER, B. Sc., Adjunct Professor of Electrical Engineering.
- GEORGE ELLIOTT HOWARD, Ph. D., Head Professor of Political Science and Sociology.
- ALICE CUSHMAN HUNTER, Ph. D., Adjunct Professor of Roman History and Literature.
- GUERNSEY JONES, Ph. D., Associate Professor of American History.
- JULIA KORSMEYER, A. M., Assistant Professor of the Romance Languages and Literatures.

- JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and Literature.
- JAMES EDWARD LE ROSSIGNOL, Ph. D., Head Professor of Political Economy and Commerce.
- GEORGE ANDREW LOVELAND, A. M., LL. B., Associate Professor of Meteorology, and Observer of the United States Weather Bureau.
- GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor of Education.
- RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Pharmacodynamics.
- EDWIN MAXEY, D. C. L., Ph. M., Professor of Public Law and Diplomacy.
- \*EDWARD GERRARD MONTGOMERY, A. M., Professor of Experimental Agronomy.
- BURTON EVANS MOORE, Ph. D., Professor of Physics.
- GEORGE HART MORSE, B. E. E., E. E., Professor of Electrical Engineering.
- CLARK EDMUND PERSINGER, A. M., Associate Professor of American History.
- RAYMOND JOHN POOL, A. M., Associate Professor of Botany. Curator of the Herbarium.
- LOUISE POUND, Ph. D., Professor of the English Language and Literature.
- JOSEPH HORACE POWERS, Ph. D., Professor of General and Experimental Zoology.
- CHARLES WILLIAM PUGSLEY, B. Sc., Superintendent of Agricultural Extension and Head Professor of Farm Management.
- FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- LYNN A. SCIPIO, M. E., Assistant Professor of Mechanical Engineering.
- ADDISON ERWIN SHELDON, A. M., Lecturer in Political Science and Director Legislative Reference Bureau.
- LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Dean of the Graduate College and Head Professor of the English Language and Literature. Administration Hall 104.
- CLARENCE AURELIUS SKINNER, Ph. D., Head Professor of Physics.
- PHILIP K. SLAYMAKER, M. E., Associate Professor of Applied Mechanics and Machine Design.

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\* Resigned.

- OLENUS LEE SPONSLER, A. B., Associate Professor of Forestry, in charge of department.
- OSCAR VAN PELT STOUT, B. C. E., C. E., Head Professor of Civil Engineering. Dean of the Engineering College.
- FREDERICK AMES STUFF, A. M., Litt. D., Professor of the English Language and Literature. .
- MYRON HARMON SWENK, A. M., Associate Professor of Entomology.
- GOODWIN DE LOSS SWEZEY, A. M., Professor of Astronomy.
- WILLIAM GEORGE LANGWORTHY TAYLOR, A. B., LL. B., Professor Emeritus of Political Economy and Commerce.
- LOUIS BRYANT TUCKERMAN, Jr., A. B., Assistant Professor of Physics.
- GEORGE OLLEN VIRTUE, Ph. D., Professor of Political Economy and Commerce.
- HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.
- ELDA REMA WALKER, Ph. D., Assistant Professor of Botany.
- LEVA BELLE WALKER, A. M., Adjunct Professor in Plant Pathology.
- CHARLES WILLIAM WALLACE, Ph. D., Professor of English Dramatic Literature.
- HUTTON WEBSTER, Ph. D., Professor of Social Anthropology.
- EDWIN MEAD WILCOX, Ph. D., Professor of Agricultural Botany and Botanist of the Experiment Station.
- WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.
- ROBERT HENRY WOLCOTT, A. M., M. D., Head Professor of Zoology and acting Dean of the College of Medicine.
- HARRY KIRKE WOLFE, Ph. D., Head Professor of Philosophy.

### **Graduate Council**

Professors Chatburn, Frye, Grummann, Howard, Lees, Sherman, Skinner, Wilcox, Wolfe.

### **Standing Committees**

Examinations—Professors Wilcox, Howard.

Enrollment—Professors Lees, Skinner.

Publication—Professors Grummann, Frye.

Standardization—Professors Wolfe, Chatburn.

## THE GRADUATE COLLEGE

**Organization and History of the Graduate College.** Graduate instruction in the University of Nebraska was organized in 1886. In September of this year courses were offered in thirteen subjects, including Sanskrit, Old French, Germanies, and Institutional History. In 1895 a Graduate School was organized, under a dean and a designated faculty. The number of students increased steadily, and in 1898 thirty-nine candidates received degrees. During the second period, lasting till 1909, many graduate subjects were added, including Astronomy, Bacteriology, Commerce, Education, English History, Geography, Physiology, and Sociology. In the legislative session of 1909 the charter of the University was amended, and the establishment of seven colleges, instead of the five colleges named in the charter, was authorized. By this act the Graduate School became the Graduate College of the University of Nebraska.

**Purpose of the Graduate College.** The Graduate College extends and enlarges the work of the undergraduate departments, in order to provide facilities for specialization and research. It enables students to employ themselves for two or more semesters on uncompleted subjects, or other work for which the discipline of college training has prepared them. It furnishes expert and standard preparation for those who expect to become investigators, consulting engineers, or teachers in academies and colleges. The Graduate College offers these privileges, which would be costly in an institution differently endowed, practically without expense to the student.

**Degrees.** The degrees of Doctor of Philosophy, Master of Arts, Master of Forestry, Agricultural Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer are conferred on registered students, by the Board of Regents, upon recommendation of the Graduate faculty.

## ADMISSION TO THE GRADUATE COLLEGE

**Classes of Graduate Students.** The Graduate College recognizes three classes of applicants: those who, having taken a bachelor's degree, wish to broaden their education without reference to higher degrees; those who wish to be candidates for advanced degrees, but are deficient in undergraduate preparation; and those who are eligible to candidacy, and wish to enter at once upon their special work. Those who do not wish to be candidates for an advanced degree are at once admitted, on evidence of graduation, to approved work in the Graduate College. Persons presenting

first degrees in Law or Medicine or Theology may be admitted in this class. Those seeking advanced degrees, with insufficient preparation, are admitted to graduate standing, but must at once make up their deficiencies by taking courses in the undergraduate colleges. On completion of these assigned or arranged courses, such students become applicants of the third class, and are eligible to candidacy for the degree desired.

**Registration.** Graduates of the undergraduate colleges of this University, or of other colleges having equivalent courses and requiring four years of standard preparation, who have been accepted and approved by heads of departments in charge of the subjects proposed, are registered by the Dean of the college for the degree they designate. For the degree of Doctor of Philosophy, the candidate must be registered for a major subject and an approvably related minor, or a major subject and two approvably related minors. Candidates for the degree of Master of Arts may be registered for a major and a minor subject, or for a major and two minors, or may concentrate all work upon a single subject.

#### Fees.

Matriculation, on entrance .....	\$5.00
Incidental, each semester.....	3.00
* Library, each semester .....	1.00
Diploma fee, for each advanced degree.....	10.00
† <i>In absentia</i> additional diploma fee.....	10.00

Agricultural Chemistry—Courses 2, 4, \$5; 5, 6, \$10.

Bacteriology and Pathology—Courses 1, \$8; 2a, 3, 4, \$4.

Botany—Courses 5, 6, 23, 24, \$3; 13, 14, 31, 32, \$1; 15, 16, 21, 22, 25, \$2; 39, 40, 41, 42, 43, 44, 47, 48, 49, 50, for each credit hour a semester, \$1.

Chemistry—Courses 21, 22, 34, \$5; 15, 16, 27, \$2; 14, \$8; 39, 40, for each credit hour a semester, \$1.

Entomology—Courses 5, 6, 7, 8, \$2; 10, 11, 13, \$1; 15, 16, 17, 18, for each credit hour a semester, \$1.

Geology—Courses 13, 33, \$1; 15, 16, \$2.

Histology and Embryology—Courses 1, \$4; 2 (according to credit), \$3 to \$6; 11, \$2; 11a, 14, \$3; 12, \$.4.

Pharmacology—Courses 5, 6, \$3.

Physiology—Courses 1, 2, \$5; 12, \$9; 13, \$6.

Zoology—Courses 3, \$3; 6, \$5; 7, 12, 14, \$2; 21, 22, 36, \$1; 9, 10, 15, 17, 18, 25, 26, 27, 28, 43, for each credit hour a semester, \$1.

\* Graduate students taking laboratory work are charged the usual laboratory fees; a student paying any laboratory fee is not required to pay the library fee.

† The doctor's degree cannot be taken *in absentia*.

The usual laboratory fees are required of those taking work in any science or engineering department. But any student who is able to devote only a portion of his time to his university work may, upon the recommendation of the Graduate Council to the University Secretary, be permitted to register free of charge after he has paid the usual dues and fees for four semesters, if a candidate for the degree of Master of Arts, and for eight semesters, if a candidate for the degree of Doctor of Philosophy.

### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY**

Candidacy for the degree of Doctor of Philosophy can in no case be completed in less than three years of graduate study. Two years of such work, in another institution, when carried with proper facilities and under competent instruction, may be credited by the Graduate Council; but the last year of candidacy must be spent in residence in the Graduate College. Each candidate must, at registration, satisfy the Graduate Council that he has a reading knowledge of French and German, or must arrange with the heads of these departments with reference to his deficiencies.

**Preliminary Examination.** Not later than one school year before his final examination, each candidate for the degree of Doctor of Philosophy must submit to a preliminary examination. This examination may be waived, however, in the case of a candidate who has taken his Master's degree in this University.

**Thesis.** On completion of his studies, the candidate must present an acceptable thesis. The thesis, prepared upon a topic that has been approved by the professor in charge of the major subject, must show evidence of scholarly research. It must be typewritten, paged, and bound according to a prescribed form, which may be seen in the University library. It must be submitted to the professor in charge of the major subject at least two months before the intended graduation of the candidate. When it has been approved by the examining committee, it will be placed in the Chancellor's office, where, during a period of not less than two weeks, it will be available for inspection by members of the faculty. A public defense of the thesis may be required of the candidate. After the thesis has been finally approved, the candidate must file an original and a duplicate typewritten copy of it with the librarian. The original copy of the thesis so filed may not be loaned, or pass from the custody of the Librarian under any circumstances or pretext whatsoever. It is also required of the candidate that he have printed and deposited in the library of the University one hundred copies of his thesis, to be subject to the control of the

librarian and the head of the department concerned. All theses and printed in one hundred copies of his thesis, to be subject to the control of the copies thereof must be provided with a cover and a title page lettered in a form prescribed by the librarian. The degree, however, may be conferred before the thesis is printed, provided a security bond be furnished and filed with the Secretary of the board of regents. The amount of this bond is to be named by the librarian, and any term of extension will be fixed jointly by the librarian and the Dean of the Graduate College.

**Final Examination.** After the thesis of the candidate has been accepted by the examining committee, he must pass a public examination in the subjects offered for his degree. This examination is held before an examining committee of not less than three members, including the professors in charge of the major and minor subjects, supplemented if necessary by appointment from the graduate faculty.

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Candidacy for the degree of Master of Arts can in no case be completed in less than a year of resident graduate study.\* On completion of this study, the candidate must pass a public examination, and present an acceptable thesis, based upon some topic connected with his major subject.

**Examination.** After finishing his studies, each candidate must pass a public examination in the subjects offered for the Master's degree. By concession, a student unable to complete his candidacy in a single residence at the University may be examined in his major and minor studies separately, on completion of either. The examination is conducted by a committee composed of the professors in charge of the major and minor subjects, and some member of the Graduate Council. If but a single subject is offered, an additional examiner is appointed from the Graduate Faculty.

**Thesis.** Each candidate for the degree of Master of Arts must present a thesis embodying, in connection with his major subject, the results of research, or the scholarly treatment of some topic. It must be typewritten, paged, and bound according to a form prescribed, which may be seen in the library of the University. It must be submitted for examination at least two weeks before the intended graduation of the candidate. After being approved and accepted, the thesis becomes the property of the University and is placed on file in the University library.

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\* By concession, approved students may be accounted to have fulfilled the requirement of residence by completion of eighteen hours of work registered for in Summer Sessions of the University.

**FELLOWSHIPS AND SCHOLARSHIPS**

Fellowships and Scholarships, established in the different departments of the University, are available to students registered in the Graduate College. Fees are remitted to Fellows and Scholars for courses listed in the Graduate college only. Fees will be required for all undergraduate laboratory work.

These positions are awarded to students recommended by the respective heads of departments. They are not gifts or benefactions from the state but are means whereby services are rendered to the University and at the same time the holder is assisted in some special line of work. The instruction required of Fellows and Scholars is confined to the department in which they are pursuing advanced work. For additional information see the announcement of the various colleges.

**COURSES OF INSTRUCTION**

The courses of instruction for the Graduate College, the College of Arts and Sciences, and the Teachers College are grouped together, on later pages of this catalog, under the heading, "Courses of Instruction."

**The College of Arts and  
Sciences**

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

**SAMUEL AVERY**, Ph. D., LL. D., Chancellor of the University.

**JAMES STUART DALES**, M. Ph., Secretary of the University.

**EDWARD MARKWOOD RUTLEDGE**, A. B., Registrar and University Publisher.

**ELLERY WILLIAMS DAVIS**, Ph. D., Dean of the College of Arts and Sciences and Head Professor of Mathematics. Administration Hall 104.

**CHARLES EDWIN BESSEY**, Ph. D., LL. D., Head Professor of Botany and Head Dean of the Colleges.

**LUCIUS ADELNO SHERMAN**, Ph. D., LL. D., Head Professor of the English Language and Literature.

**CHARLES FORDYCE**, Ph. D., Head Professor of Educational Theory and Practice and Dean of the Teachers College.

**ROBERT HENRY WOLCOTT**, A. M., M. D., Head Professor of Zoology and acting Dean of the College of Medicine.

**GROVE ETTINGER BARBER**, A. M., Head Professor of Roman History and Literature.

**HOWARD WALTER CALDWELL**, A. M., Head Professor of American History.

**LAWRENCE BRUNER**, B. Sc., Head Professor of Entomology and Botanist of the Experimental Station.

**LAURENCE FOSSLER**, A. M., Head Professor of Germanic Languages and Literatures.

**JAMES THOMAS LEES**, Ph. D., Head Professor of Greek History and Literature.

**ERWIN HINCKLEY BARBOUR**, Ph. D., Head Professor of Geology and Curator of the University Museum.

**FRED MORROW FLING**, Ph. D., Head Professor of European History.

**WILLIAM GEORGE LANGWORTHY TAYLOR**, A. B., LL. B., Professor Emeritus of Political Economy and Commerce.

- \*GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor of Education.
- GEORGE ELLIOTT HOWARD, Ph. D., Head Professor of Political Science and Sociology.
- PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.
- HARRY KIRKE WOLFE, Ph. D., Head Professor of Philosophy.
- JAMES EDWARD LE ROSSIGNOL, Ph. D., Head Professor of Political Economy and Commerce.
- GOODWIN DE LOSS SWEZEY, A. M., Professor of Astronomy.
- RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Head Professor of Physical Education.
- CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures.
- MILLER MOORE FOGG, A. M., Professor of Rhetoric.
- EDGAR LENDERSON HINMAN, Ph. D., Professor of Logic and Metaphysics.
- CLARENCE AURELIUS SKINNER, Ph. D., Head Professor of Physics.
- GEORGE EVERETT CONDRA, Ph. D., Head Professor of Geography and Economic Geology.
- EDWIN MAXEY, D. C. L., Ph. M., Professor of Public Law and Diplomacy.
- ALBERT LUTHER CANDY, Ph. D., Professor of Pure Mathematics.
- WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts.
- BURTON EVANS MOORE, Ph. D., Professor of Physics.
- PAUL HENRY GRUMMANN, A. M., Professor of Modern German Literature.
- HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.
- HUTTON WEBSTER, Ph. D., Professor of Social Anthropology.
- CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics.
- BENTON DALES, Ph. D., Professor of Chemistry.
- AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.
- HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy.
- †JASPER LEONIDAS MCBRIEN, A. M., Director of University Extension Work.

\*On leave of absence.

†Resigned.

- JOHN EDWIN ALMY, Ph. D., Professor of Experimental Physics.
- WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.
- GEORGE OLLEN VIRTUE, Ph. D., Professor of Political Economy and Public Finance.
- HALSEY EDWARD YATES, Captain of Inf., U. S. A., Professor of Military Science and Tactics.
- ALICE BAIRD ENSIGN, A. B., Adviser to Women.
- JOSEPH HORACE POWERS, Ph. D., Professor of General and Experimental Zoology.
- FREDERICK AMES STUFF, A. M., Litt. D., Professor of the English Language and Literature.
- HERBERT BROWNELL, B. Sc., Professor of Theory and Practice of Teaching the Physical Sciences.
- REV. DEAN R. LELAND, A. M., Chaplain of University Cadets.
- RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Pharmacology.
- LOUIS POUND, Ph. D., Professor of the English Language and Literature.
- CHARLES WILLIAM WALLACE, Ph. D., Professor of English Dramatic Literature.
- PHILO MELVIN BUCK, Jr., A. M., Professor of Rhetoric.
- EWALD ORTWIN STIEHM, A. B., Professor and Director of Athletics.
- GEORGE ANDREW LOVELAND, A. M., LL. B., Associate Professor of Meteorology and Observer United States Weather Bureau.
- LUCILE EAVES, M. Sc., Ph. D., Associate Professor of Practical Sociology.
- GUERNSEY JONES, Ph. D., Associate Professor of American History.
- CLARK EDMUND PERSINGER, A. M., Associate Professor of American History.
- FRANKLIN DAVIS BARKER, Ph. D., Associate Professor of Zoology.
- WILLIAM CHARLES BRENKE, Ph. D., M. Sc., Associate Professor of Mathematics.
- LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political Science.
- RAYMOND JOHN POOL, A. M., Associate Professor of Botany and Curator of the Herbarium.

- MYRON HARMON SWENK, A. M., Associate Professor of Entomology.
- OLENUS LEE SPONSLER, A. B., Associate Professor of Forestry, in charge of the department.
- FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- AMANDA HENRIETTA HEPPNER, A. M., Assistant Professor of the Germanic Languages and Literatures.
- ELDA REMA WALKER, Ph. D., Assistant Professor of Botany.
- NELS AUGUST BENGTSON, A. M., Assistant Professor of Geography and Economic Geology.
- ANDREW D. SCHRAG, Ph. D., Assistant Professor of German.
- JULIA KORSMEYER, A. M., Assistant Professor of the Romance Languages and Literatures.
- SHERLOCK BRONSON GASS, A. B., Ph. B., Assistant Professor of Rhetoric.
- GEORGE ASBURY STEPHENS, Ph. D., Assistant Professor of Political Economy.
- GEORGE BORROWMAN, A. M., Assistant Professor of Chemistry.
- MILTON D. BAUMGARTNER, A. M., Assistant Professor of German.
- HARRIETT ALICE HOWELL, A. M., Adjunct Professor of Eloquence.
- LAURA BELLE PFEIFFER, A. M., Adjunct Professor of European History.
- CARRIE BELLE RAYMOND, Director of Music.
- MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry.
- ALICE CUSHMAN HUNTER, Ph. D., Adjunct Professor of Roman History and Literature.
- SARA SHEWELL HAYDEN, Adjunct Professor of Technique of Fine Arts and Director of School of Fine Arts.
- SARKA HRBKOVÁ, A. B., Adjunct Professor of Slavonic Languages.
- INA ESTELLE GITTINGS, A. B., Adjunct Professor of Physical Education and Director of Women's Gymnasium.
- FRANCIS J. PERUSSE, Ph. C., Adjunct Professor of Pharmacy.
- LEVA BELLE WALKER, A. M., Adjunct Professor of Plant Pathology.
- JOSEPH EMANUEL ALEXANDER ALEXIS, A. M., Adjunct Professor of Germanic Languages.

- JOHN JACOB PUTNAM, A. M., Adjunct Professor in Bacteriology and Pathology.
- ECK FRANK SCHRAMM, A. M., Adjunct Professor in Geology.
- ANNA MARY TIBBETS, A. M., Adjunct Professor in Education.
- MARGUERITE CAMERON MCPHEE, A. M., Adjunct Professor in Rhetoric.
- ELIZABETH IRENE REESE, A. M., Adjunct Professor in Romance Languages and Literatures.
- ADDISON ERWIN SHELDON, A. M., Lecturer in Political Science.
- JOHN MARTIN CHOWINS, Expert Mechanician, Department of Physics.
- BERTRAM JOHN SPENCER, Demonstrator and Teacher of Construction in Physics.
- HENRIETTA McELROY BROCK, Instructor in China Painting.
- MAY CHAMBERLAIN, A. M.; Instructor in the Germanic Languages and Literatures.
- CLARE BROWN CORNELL, A. B., Instructor of the Band.
- \*AUGUST HAGENOW, Instructor of the Band.
- HENRY T. JOHNSON, B. Sc., Instructor in Mathematics.
- DAISY JEANNETTE NEEDHAM, A. M., Instructor in European History.
- CLARENCE JACKSON FRANKFORTER, A. M., Instructor in Chemistry.
- MINNIE THROOP ENGLAND, Ph. D., Instructor in Political Economy.
- LULU L. RUNGE, A. M., Instructor in Mathematics.
- ELIZABETH RUTH BENNETT, Ph. D., Instructor in Mathematics.
- IRVING SAMUEL CUTTER, B. Sc., M. D., Instructor in Chemistry.
- JESSIE BEGHTOL, A. B., Instructor in Physical Education.
- ROBERT D. SCOTT, A. M., Instructor in English Language and Literature.
- ANNA MABEL DAY, Instructor in Physical Education.
- HAROLD EDGAR McCOMB, A. M., Instructor in Physics.
- ELSIE DAY, A. B., Ph. G., Instructor in Pharmacognosy.
- EDITH LENORA WEBSTER, A. B., Instructor in Geology.
- SOLOMON LEFSCHETZ, M. E., Ph. D., Instructor in Mathematics.
- WINIFRED FLORENCE HYDE, Ph. D., Instructor in Philosophy.

\* Resigned.

WALTER LEONARD ALBIN, M. D., Instructor in Pathology.

MARGARET LOUISE HANNA, A. B., Instructor in Botany.

\*MARY CATHERINE GRAHAM, A. B., Assistant Instructor in Chemistry.

CARRIE ADELINA BARBOUR, B. Sc., Instructor in Paleontology and Assistant Curator of the University Museum.

ERVIN FILLMORE WILSON, B. Sc., Instructor in Chemistry.

### FELLOWS, SCHOLARS AND GRADUATE ASSISTANTS

EMMA MARGARET ANDRA, A. B., Assistant Instructor in Romance Languages.

EMMA NATHALIA ANDERSON, A. B., Fellow in Botany.

BLANCHE MAY AUSTIN, A. B., Scholar in Roman History and Literature.

VIOLA FLORENCE BARNS, A. M., Fellow in American History.

LELAND JAYNES BOARDMAN, A. B., Graduate Assistant in Physics.

MAYME DWORAK, A. B., Fellow in Botany.

SILAS CALVIN FEEMSTER, A. M., Scholar in American History.

DONALD FOLSOM, Scholar in Botany.

OLIVER HOLMES GISH, B. Sc., Graduate Assistant in Physics.

DONEE GRIFFITH, Assistant in Geography and Economic Geology.

RAYMOND HENDERSON KENDRICK, B. Sc., Scholar in American History.

SAMUEL MARKS KINNEY, A. B., Graduate Assistant in Physics.

BERTHA NATHALIA KRAMER, B. Sc., Fellow in Botany.

DOROTHY SOPHIE MAYLAND, A. B., Fellow in German.

CORA B. SWIFT, A. B., Assistant Instructor in Romance Languages.

CLIFFORD WEBB WELLS, Ph. B., Scholar in Histology.

OTTO WIESE, B. Sc., Assistant in Chemistry.

### Standing Committees

Course of Study—Professors Fossler (chairman), Skinner, Wolfe, Lees, Frye, Le Rossignol, Stuff, Barker, Brenke.

Advanced Standing—The Chancellor, the Dean and the Inspector of Accredited Schools.

Assignment to Recitations and Laboratories—Professors Engberg (chairman), Almy, Barker, Baumgartner, Bengtson, Borrowman, Buck, Gass, Johnson, Korsmeyer, Pool, Schrag, Stephens.

Advisers to Freshmen—Professors Lees (chairman), Fling, Frye, Skinner, Wolfe.

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\*Resigned.

## THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the oldest of the colleges of the University. It offers four years of undergraduate instruction leading to the degree of Bachelor of Arts or of Bachelor of Science. Its chief object is a liberal education, but by a system of "advisers" and "major subjects" it permits of vocational specialization, especially in junior and senior years. In addition, students desiring to combine a liberal arts course with the technical one of law, medicine, or engineering, are offered six-year combined academic and professional or technical groups of study leading to the degree of bachelor of arts or of bachelor of science at the end of four or five years and to the degree of bachelor of law, doctor of medicine, or bachelor of science in engineering at the end of the sixth year.

### ADMISSION TO THE COLLEGE OF ARTS AND SCIENCES

**Entrance Credits.** For admission to the freshman year of the College of Arts and Sciences, a student must present 30 high school entrance credits or "points"\*\* from an accredited secondary school of which he must be a graduate. Effective September 1, 1912, conditional admission will be permitted on a minimum of 28 credits or "points" from an accredited secondary school of which the student must be a graduate. All other candidates for regular admission will be required to take entrance examinations.

Entrance credit, in addition to that presented when admission is granted, to be accepted must be submitted within one year from date of matriculation. In order to receive college credit for work accomplished in a secondary school application must be made at the time of first registration in the University.

**Entrance Subjects (30 points).** The 30 points required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

The following table of entrance requirements becomes effective September 1, 1912, for all undergraduate colleges of the University:

\*An entrance credit or "point" is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses a credit "point" is given for three recitations and two double periods of laboratory work (under the supervision of a competent instructor) each week for at least eighteen weeks. In laboratory courses without recitation, a credit point is the equivalent of fifteen single periods each week.

## Required Subjects—

	Points
English .....	4
History (European)* .....	2
Language (Foreign)† .....	6
Mathematics‡ .....	4
Science (Laboratory)§ .....	2

## Elective Subjects—

Other subjects taught in an approved manner in an accredited secondary school .....	12
Total.....	<u>30</u>

\*History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.

†Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.

‡Mathematics: For entrance to College of Agriculture advanced algebra and solid Geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering 6 points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.

§Science: It is recommended that Physics be offered in meeting the science requirement.

**Freshman Program.** \*The following program for freshmen became effective September 1, 1911:

	1st Semester	2d Semester
	Hours	Hours
I. Rhetoric 1, 2.....	2	2
Military Science (Men) or Physical Training (Women) .....	1	1
II. Ancient Languages .....	5	5
Modern Languages .....	5	5
Mathematics† .....	5	5

\* Committee of Advisers appointed for freshmen in the College of Arts and Sciences: Professors Fling, Frye, Lees, Skinner, Wolfe.

† For Mathematics (II) may be substituted one of III, other than a subject already taken, and one of IV.

	1st Semester Hours	2d Semester Hours
III. Botany . . . . .	3	3
Chemistry . . . . .	2 or 3	2 or 3
Physics . . . . .	3	3
Zoology* . . . . .	3	3
IV. European History 1, 2 . . . . .	3	3
American History 1, 2 . . . . .	3	3
English Literature 1, 2 . . . . .	3	3
Political Science 1, 2 . . . . .	3	3

Of the above the student is required to

First: Take I.

Second: Take any two of II.

Third: Take any one of III.

**Advanced Standing.** Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-fourths of the credits required for graduation from the University. Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regularly organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless, in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence and in the senior year at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

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\* Students fitting themselves for professional work in Entomology may substitute Entomology 1 and 2, taking Zoology 1 and 2 later.

**Adult Special Students.** Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the general colleges as Adult Special students under such conditions as shall be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Students in the School of Fine Arts and teachers in the city schools may be admitted as Adult Special students. Such candidates are required to offer satisfactory proof that they are prepared to do the work for which they wish to register.

**Registration.** Registration in the College of Arts and Sciences takes place during the first four days of each semester, from 9 a. m., Wednesday, to 5 p. m., Saturday. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days.\* A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault; any change whatever in a registration once made being regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student may make such a change without written permission to the Registrar from the dean of each college concerned. No student is allowed to drop any study for which he has been regularly registered, except by written permission from the dean of the college. No first-year student may register for more than 16 credit hours except with written consent of the dean, and then for a maximum of 18 hours. Second to

\* Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage.

fourth year students may register for 18 credit hours when their work has averaged at least 80 per cent the previous year. No first or second-year student may register for more than one one-hour course (in addition to drill or physical education) in any one semester; and no third or fourth year student may register for more than two such courses in any one semester. A student cannot attend a class for which he is not registered, and no credit is granted for studies pursued without registration.

**Fees.** All fees must be paid to the Secretary of the University at the time of registration. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a course or from the University. The following fees are required of students in the College of Arts and Sciences:

Matriculation (on first registration only).....	\$5.00
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Being a statutory one, this fee cannot be refunded except when collected in error. It is also charged any student changing membership from one college to another.

Non-resident tuition, each semester.....	15.00
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*Incidental, each semester.....	3.00
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†Library, each semester.....	1.00
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‡Military, for the year.....	1.00
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Diploma, on graduation.....	5.00
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#### Special:

Re-registration (including change in registration).....	3.00
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Late registration (after registration days).....	3.00
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Examination, each subject.....	1.00
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Diploma, for degree taken <i>in absentia</i> , additional.....	10.00
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\* In the six-year combined academic and professional or technical groups (law, medicine, and engineering) this fee is charged until such time as the candidate obtains his academic degree.

† No student paying a laboratory fee is required to pay this fee for the same semester.

‡ This fee is collected to assist in defraying the cost of wear and tear of equipment loaned to the University by the U. S. government, and to cover the expenses incidental to the care thereof.

If property of value is lost or damaged, the student responsible will be required to pay for the same.

**Laboratory Fees.** In addition to the foregoing general or miscellaneous fees, each student is required to pay the laboratory fee for each subject in which he is registered for laboratory work. These fees do not cover careless waste, breakage, or injury to apparatus. In any such case the student is required, upon notice by the department concerned, to pay the amount of such waste or damage at the secretary's office, and to present his receipt therefor to the department before his semestral credit is reported to the Registrar. For schedule of laboratory fees see page 36.

### REQUIREMENTS FOR GRADUATION

**University Credits (125 hours).** For the degree of Bachelor of Arts or of Bachelor of Science, 125 University credit hours\* are required. No student is recommended for a degree who is not within eighteen hours of this requirement at the beginning of his last semester.

No student is permitted to be a candidate for more than one degree at a time. Not more than one degree can be conferred upon any student on any commencement day. A graduate holding the degree of Bachelor of Arts may receive the degree of Bachelor of Science by an additional year of work (30 hours), two-thirds of which must be given to a major in Exact Science, Physical Science, or Biological Science. A graduate holding the degree of Bachelor of Science may receive the degree of Bachelor of Arts by an additional year of work (30 hours), two-thirds of which must be given to a major in the Mother Tongue, Classics, Modern Language, History, Philosophy or Economics.

**Required Subjects (8 hours).** Each candidate for graduation from the College of Arts and Sciences is absolutely required to complete the following subjects:

	Hours
Rhetoric (courses 1 and 2).....	4
†Military Science (men) or Physical Education (women).....	4

\*A course receives one hour of credit for each one-hour recitation or lecture which presupposes two hours of preparation or for the equivalent of a three-hour laboratory period during each of the eighteen weeks of a semester.

†Only credibly attested physical disability, or membership in a religious organization whose creed forbids participation in warfare in any form (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved by the Chancellor, each undergraduate man or

**Optional Subjects (40 to 48 hours).** Each candidate for the bachelor's degree is required to choose two groups from each of the following divisions (A, B, C),\* in the amount indicated, which shall be completed before the end of his junior year:

	Hours
A (1) Mother Tongue.....	6
(2) Classics (Greek or Latin).....	10
(3) Modern Language (other than English).....	10
B (4) History .....	6
(5) Philosophy .....	6
(6) Political Economy or Political Science.....	6
C (7) Exact Science (Astronomy, Mathematics).....	10
(8) Physical Science (Chemistry or Physics).....	6
(9) Biology (Botany or Zoology).....	6

Each Sophomore shall take at least one subject (other than Rhetoric and Military Science or Physical Education) continued from his freshman year.

**Specialization (24 to 40 hours).** Not later than the beginning of his second or sophomore year, each student in the College of Arts and Sciences must select some one department in which he is to take a "major" of not less than 24 nor more than 40 hours,† or two minors of 12 to 16 hours each.

**Grades.** From September 1, 1910, not more than 20 per cent of the student's further work below a grade of 70 per cent is credited on requirements for graduation.

woman must fulfill this requirement during the freshman and sophomore years, or begin the work immediately upon matriculation. A failure to take military science or physical education during the required semester, unless reprieved in writing, increases the requirement one semester for each failure. A reprieve does not abridge or otherwise modify a student's requirement in military science or physical education save to defer the period for discharging it; and no reprieved person leaving the University without having discharged this requirement can claim honorable dismissal. A student excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degree sought. Thorough drill or physical education elsewhere than at the University may, as the case of any other study, on evaluation, be credited to a student in lieu of a like amount of either subject at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

\*A subject from the groups taken in the student's first semester shall be continued in his second semester.

†A student may register in the six-year combined Academic-Law course in his senior year and elect not more than 24 hours in the College of Law as his major. (See the announcement of the College of Law.)

**In Absentia Credit**—All *in absentia* students must register the same as other students. For each credit hour granted, *in absentia* students (except in the department of University Extension) are required to perform the equivalent of 72 hours of actual work (this being one-third more than is required of students in residence) under the direction of a professor in the department chosen. Credit for *in absentia* work is granted only by a committee of three appointed by the senior dean, the chairman of the committee being the professor whose subject is immediately concerned. This committee examines the work of the *in absentia* student and makes a written report to the Registrar, together with a statement of the amount of credit to be granted.

**Bachelor of Science Degree**—Any student in the College of Arts and Sciences who majors in a scientific department and, of the 125 hours required for graduation, completes not less than sixty hours in mathematics and science may take the degree of Bachelor of Science instead of the degree of Bachelor of Arts. Such students, however, shall complete six of the nine groups (A, B, or C).

**Advisers**—At the time of his first registration each freshman student in the College of Arts and Sciences is assigned to a member of the Freshmen committee who becomes his adviser until his major subject is chosen. On the choice of a major department at the beginning of the second year, the head of the department thus chosen becomes the student's adviser for the remainder of his college course. No schedule of subjects or hours is valid for registration without the signature of the student's adviser. The dean of the college acts as a head adviser for all students within the college, and the adviser to women as a special adviser to all women students.

### COURSES OF INSTRUCTION

The courses of instruction for the Graduate College and the College of Arts and Sciences are grouped together, on later pages of this catalog, under the heading "Courses of Instruction." See, also, "Courses of Instruction" in the exhibits of other colleges.



# **The Teachers College**

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

CHARLES FORDYCE, Ph. D., Dean of the Teachers College and Head Professor of Educational Theory and Practiee.

GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor of Education.

HARRY KIRKE WOLFE, Ph. D., Head Professor of Philosophy. In charge of instruction in Educational Psychology.

ALBERT ALISON REED, A. B., Inspector of Accredited Schools, Professor of Secondary Education.

FREDERICK MAURICE HUNTER, A. B., Head Professor of Secondary Agricultural Education and Principal of the School of Agriculture.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University.

LUCIUS ADELNO SHERMAN, Ph. D. LL. D., Head Professor of the English Language and Literature and Dean of the Graduate College.

ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics and Dean of the College of Arts and Sciences.

ROBERT HENRY WOLCOTT, A. M., M. D., Head Professor of Zoology and acting Dean of the College of Medicine.

GROVE ETTINGER BARBER, A. M., Head Professor of Roman History and Literature.

HOWARD WALTER CALDWELL, A. M., Head Professor of American History.

LAURENCE FOSSLER, A. M., Head Professor of the Germanic Languages and Literatures.

JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and Literature.

FRED MORROW FLING, Ph. D., Head Professor of European History.

PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.

RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Head Professor of Physical Education.

CLARA CONKLIN, A. M., Professor of the Romance Languages and Literatures.

GEORGE EVERETT CONDRA, Ph. D., Head Professor of Geography and Economic Geology.

ROSA BOUTON, A. M., Professor of Home Economics.

BENTON DALES, Ph. D., Professor of Chemistry.

\* JASPER LEONIDAS McBRIEN, A. M., Director of University Extension.

ALICE BAIRD ENSIGN, A. B., Adviser to Women.

HARRIET ALICE HOWELL, A. M., Adjunct Professor of Elocution.

INA ESTELLE GITTINGS, A. B., Adjunct Professor of Physical Education.

\* GEORGE CROCKER, B. Sc., Superintendent of the Teachers College High School.

ANNA MAY TIBBETS, A. M., Adjunct Professor in Education.

WILLIAM LOGAN STEPHENS, A. B., Lecturer in Elementary Education.

MATTIE ALLEN, A. M., Instructor in Primary Education.

† CHARLES WILLIAM TAYLOR, A. B., Principal of the Teachers College High School and Professor of Educational Administration.

† HERBERT BROWNELL, B. Sc., Professor of the Theory and Practice of Teaching the Physical Sciences.

† FREDERICK AMES STUFF, A. M., Litt. D., Professor of the English Language and Literature.

† CLARK EDMUND PERSINGER, A. M., Associate Professor of American History.

† FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature, and Supervisor in Latin.

† DAISY JEANETTE NEEDHAM, A. M., Instructor in the Teaching of European History.

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\* Resigned.

† Members of the University faculty who direct practical courses in the high school.

\* VIOLA FLORENCE BARNS, A. M., Instructor in the Teaching of American History.

† HARRIET FOLGER, B. Sc., Associate Professor of Home Economics, and Instructor in the Teaching of Domestic Science.

LOUISE WILHELMINA MEARS, B. E., Instructor in Normal Training.

CORA B. HILL, A. B., Assistant Principal of the High School, and Instructor in Mathematical Pedagogy.

DOROTHY MAYLAND, A. B., Instructor in the Teaching of German.

MABEL CLARE METCALF, A. B., Instructor in the Teaching of Botany.

RAYMOND HENDERSON KENDRICK, B. Sc., Instructor in the Teaching of American History.

LETTA MAY CLARK, A. B., Instructor in the Teaching of English Language and Literature.

\* HORACE CLYDE FILLEY, A. M., Assistant Professor in the Teaching of Agriculture.

R. R. SPAFFORD, Instructor in the Teaching of Agriculture.

CHARLES LESTER LITTEL, Assistant Principal of the Academy.

FRANK COLE, Instructor in the Teaching of Mathematics.

JOHN FRANKLIN POWER, Supervisor of the Assembly Hall.

### Standing Committees

Course of Study—Professors Fossler (Chairman), Lees, Skinner, Wolfe, Le Rossignol, Frye, Stuff, Brenke, Barker.

Schedule—Professors Luckey, Conklin, Wolcott, Brownell, the Registrar.

Advanced Standing—The Chancellor, the Dean and the Inspector of Accredited Schools.

Teachers' Certificates—The Chancellor, Professors Bessey, Davis, Fordyce, Luckey, Reed, Stuff, Taylor, Wolfe, the Registrar (secretary).

Credits on University Teachers' Certificates—Dean Fordyce, the Registrar.

Bureau of Recommendation of Teachers—Dean Fordyce, Professors Barber, Brownell, Persinger, Reed, Wolfe.

Nominations—The Chancellor, the Dean.

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\* Members of the University faculty who direct practical courses in the high school.

† Resigned.

## THE TEACHERS COLLEGE

On February 14, 1908, the Board of Regents erected the University Department of Education into a Teachers College. This action was confirmed by an act of the state legislature in 1909.

The aim of this college is, while dealing with the history, theory and practice of teaching generally, to improve the quality of secondary teaching in particular, and to provide thoroughly prepared teachers for the secondary schools. The Teachers College aims to provide for the following classes of students:

(1) Well advanced and ambitious teachers wishing preparation for school superintendencies or professorships in colleges or normal schools. They may or may not wish the University Teachers' Certificate, may or may not care to work for advanced degrees.

(2) College students intending to teach, who wish the Bachelor's degree with the University Teachers' Certificate. Such candidates register in this college in the Junior year, specializing in education, and proceed as laid down under "Requirements for Graduation." The requirements for the Certificate are found under the caption "University Teachers' Certificate" on a later page.

(3) Men and women of college grade who design to teach agriculture in high or normal schools. For these a solid one-year course is provided (see below), parts of which may, however, under advice, by such as so desire, be used with the more general studies toward a degree.

(4) Men and women not necessarily possessing so high attainments who call for preparation to teach agriculture in grade or rural schools. The Dean will arrange a year of work carefully adapted to the wants of these.

(5) Persons preparing to teach special branches, such as physical or manual training, home economics, and so on. See the special one-year curricula listed below.

(6) Mature teachers in any department wishing by a longer or shorter period at the University to review studies, familiarize themselves with new methods, or master new branches. Such teachers should consult the Dean. They will find a year or even a semester of properly chosen work of great value.

The Dean of the Teachers College is also ex-officio head of the Bureau on Recommendation of Teachers. This college is also charged with the study of developing the work of instruction in agricultural pedagogy made possible by the so-called "Nelson Amendment" which became law at the end of the 59th congress. The Teachers College High School and the School of Agriculture serve as model secondary schools to the Teachers College.

### ADMISSION TO THE TEACHERS COLLEGE

Candidates for admission to the Teachers College must have completed and have credit for the first two years of collegiate work. This credit must be preceded by the pre-collegiate preparation (30 points\*) afforded by a four years' course in an accredited high school.

**Advanced Standing.** Applicants from other institutions of approved standing who offer collegiate courses or professional courses in excess of the requirements for admission, will be assigned such advanced standing as may be determined by the Committee on Advanced Standing.

**Registration.** Students register in this college in the Junior year, at the same time retaining identity in another college of the University which grants the degree of Bachelor of Arts or of Science simultaneously with the granting of the University Teachers' Diploma and the University Teachers' Certificate by the Teachers College. Thus throughout the Junior and Senior years the student is registered in two colleges.

Registration in the Teachers College takes place on the same days and under the same conditions as in the College of Arts and Sciences.

**Advisers.** The Dean of the college is the general adviser for students in this college. The board of advisers in this college consists of the Dean and members of the faculty. The general system accords with the plan obtaining in the College of Arts and Sciences.† All candidates for the Diploma and for the University Teachers' Certificate consult the Dean before registering, that the grouping and correlation of their studies may be properly fixed. Special information concerning majors and minors in which the candidate wishes to specialize may be obtained from the heads of the departments concerned.

**Fees** in the Teachers College are the same as those in the College of Arts and Sciences, except that graduates taking the University Teachers' Certificate are charged an additional certificate fee of \$2.00.

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\* For the definition of a credit "point," see page 68.

† See page 75.

## REQUIREMENTS FOR GRADUATION

**University Credits' (62 hours).** Of the 125 University credit hours\* required for the degree of Bachelor of Arts or of Bachelor of Science, 62 credit hours shall be in the Teachers College.

The candidate is enrolled at the same time in the Teachers College and in the college in which the major academic work for his degree is sought, being subject to the faculty of the latter college for his academic course and to the former for his professional. He must complete the required subjects in the college in which he takes his degree and, as optional subjects, the professional requirements of the Teachers College.

No student is recommended for a degree who, at the beginning of his last semester, is not within eighteen of the 125 hours required for graduation.

**College Professional Requirements.** Each candidate for graduation from the Teachers College is absolutely required to complete the following professional subjects in addition to those required in the college which grants the bachelor's degree.

	Hours
Psychology .....	6
Educeation (professional or technical work).....	15
Major and Minor subjects (specialization).....	40

The professional courses should be taken in the following sequence: Psychology and History of Education in the Junior year, Child Study in the Senior year or in the last half of the Junior year, Educational Theory and Practiee in the Senior year.

No major subject may be less than 24 hours, and no minor subject less than 12 hours. The 40 hours may be divided between one major and one minor or three minors. Major and minor subjects should be closely allied.

**Departmental Requirements** for major and minor recommendations for the University Teachers' Certificate may be found at the beginning of departmental exhibits under "Courses of Instruction."

**Residence.** At least one year's resident work is required of all candidates for graduation from the Teachers College.

## TEACHERS COLLEGE DIPLOMA

The completion of the two years' professional curriculum leads to the University Teachers Diploma, a document showing graduation from the Teachers College and naming the major subjects for which the candidate is prepared to teach.

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\* See foot-note (\*), page 73.

## PROFESSIONAL DEGREE

The Teachers College offers no undergraduate degree, but on the completion of an approved three years' professional curriculum, beginning with the junior academic year and extending one year into graduate work, the candidate receives the degree of Master of Arts in Education.

This college thus offers a professional course designed for students of superior scholarship and for experienced teachers who wish to make such a study of the more scientific aspects of educational problems as will especially fit them for the duties of superintendents, principals, supervisors, and departmental teachers of our best public schools.

## THE UNIVERSITY TEACHERS' CERTIFICATE

**The University Teachers' Certificate** is granted only to students registered in the Teachers College and only to those who (1) maintain an average of at least eighty (80) per cent. in their undergraduate work, and (2) show special fitness for teaching. As indicated in the extract from the Nebraska certification laws quoted below, it entitles its holder to teach in any high school in Nebraska and is valid in many other states; after three years' successful experience in Nebraska it may be converted into a life certificate by the endorsement of the state superintendent.

The special requirements for this certificate are: (1) The candidate must hold the bachelor's or the master's degree from this University. (2) The completion of non-professional or specialized work amounting to at least 40 hours, divided between a major and a minor or among three minor subjects which the student expects to teach, the ultimate decision as to the student's proficiency resting with the Certificate Committee. The major subject shall be from 24 to 32 hours and the minor from 12 to 16 hours. (3) Professional Knowledge—The completion of 15 hours in Education, and 6 hours in Psychology. Among the 15 hours of Education required, the student may elect a two-hour course in special methods in his major subject; such course must, however, meet the approval of the head professor of Educational Theory and Practice.

**Regents' Rules Regarding University Teachers' Certificates.** (1) Each candidate for a teachers' certificate shall submit to the State Superintendent of Public Instruction, for his approval, a detailed report showing the academic and professional preparation of the candidate, including both secondary and collegiate courses, properly authenticated by the Registrar of the University of Nebraska and the Dean of the college in which the student is matriculated. (2) Teachers' certificates issued by the University

of Nebraska shall contain a full record showing the amount and the character of the student's work, secondary and collegiate, as shown by the records of the Registrar's office.

For intending teachers of such technical subjects as Agriculture, Domestic Science (Home Economics), Manual Training, Physical Education, Music, etc., special provision is made, under the new certification laws for supervisors in high schools and in the grades.

**Certification Committee.** All general questions relating to the student's work for the University Teachers' Certificate are under the supervision of the Committee on Teachers' Certificate as named in the standing committees of the Teachers College. Recommendations for the certificate are made to the Faculty of the Teachers College through this committee.

**Bureau on Recommendation of Teachers.** The University maintains a bureau under the direction of a committee, to assist students and graduates in securing positions as teachers and at the same time to aid superintendents and boards of education in providing schools with competent and suitable teaching talent. For information address the secretary of the Bureau on Recommendation of Teachers.

### NEBRASKA CERTIFICATION LAWS

The laws of the state of Nebraska concerning the certification of teachers contain the following provisions:

**University Professional State Certificate.** "That all graduates of the University of Nebraska holding a degree of bachelor of arts or bachelor of science, and in addition thereto, certificates authorized by the board of regents showing that such graduates have completed the course of instruction prescribed by the regents and faculty of said university, for the special training and instruction of teachers, and such other graduates as hold the same degrees from any college or university duly incorporated under the laws of the state of Nebraska, who, in the judgment of the state superintendent of public instruction, have completed in their respective institutions an equivalent of the courses in the state university, for said degrees prescribed by the regents and faculty of said university, shall be accredited as qualified teachers within the meaning of the school law of this state; and all such graduates shall have equal privileges, upon equal conditions, with graduates from any and all other educational institutions within this state under the school law thereof. Said certificates are hereby declared

to be valid as certificates of the first grade to teach in the public schools of the state of Nebraska for a period of three years from their date" (Sec. 1a, subd. IX, S. L. 1905).

**University Life Certificate.** "After three years of actual teaching, the certificates of the graduates of the University of Nebraska, or of any other college or university mentioned or described in section 1a of this act, shall be counter-signed by the state superintendent of public instruction upon satisfactory evidence that the services of the applicant have been successful; Provided, that said counter-signature may be cancelled and its legal effect annulled by the superintendent of public instruction upon satisfactory evidence of disqualification; Provided, further, that such certificates shall be subject to the provisions for lapsing set forth in Section 4, Subdivision 9, of Chapter 79 of the Compiled Statutes of Nebraska for the year 1899" (Sec. 1b, subd. IX, S. L. 1905).

**City State Certificate.** Those graduating from the University with either the University Teachers' Certificate or with a first grade County Certificate will receive the City State Certificate entitling them to teach in the public schools of Nebraska in accordance with Section 5, subdivision 9a, School Laws 1911.

**First Grade County Certificate without examination.** On college graduation, with experience or professional training. "The county superintendent may, at his discretion, grant a first-grade certificate, without examination, to a graduate of a college, university, or state normal school, subject to such rules and regulations as may be prescribed by the state superintendent of public instruction" (Sec. 11, subd. IXa, S. L. —). The following requirements have been prescribed by the state superintendent governing the issuance of this certificate: (1) One year's successful experience in teaching; or (2) Four hours of school management; four hours in general methodology; and four hours in elective work in history of education, child study, school hygiene, educational psychology, or other pedagogical subjects.

**County Certificate, with less than complete examination.** "Graduates who have not had one year's experience or taken the aforesaid twelve hours in professional training will be required to take the regular teachers' examination in reading, arithmetic, grammar, geography, United States history, drawing, orthography, penmanship, mental arithmetic, and theory and art of teaching. Graduates who cannot present a college or university credit in algebra, botany, geometry, physics, agriculture, civics, English

composition, bookkeeping and physiology, equal to that required at the University of Nebraska for full entrance to the freshman year in the institution, will be required to take in addition the regular teachers' examination in said subjects."

### THE TEACHERS COLLEGE HIGH SCHOOL

**The Training School.** The Teachers College Training School is an accredited four-year high school approved by the North Central Association of Colleges and Secondary Schools. It is located in the University Temple and is a distinctive feature of the University Teachers College. Besides seven large, attractive class rooms and a commodious assembly hall, there are cloak and toilet rooms and ample library and laboratory equipments for a modern school. Here one hundred and twenty-five youths of high school rank are under the direction and tuition of the Head Professor of Educational Theory and Practice, a skillful and experienced principal, supervisors and assistant instructors.

**Senior Observation and Practice in the Training School.** The Training School first serves as a model secondary school for instruction according to the most advanced methods, and secondly as a place for the study of practical problems in teaching and school administration. Seniors in the Teachers College are required to observe the conduct of the model school and to make a critical study of its educational aims, values and processes, the results of which are summarized and discussed in the class rooms. When the student has become familiar with the pedagogical work of the class observed he is required to select material and organize subject matter in lessons and assist in instruction; but in no case is a student teacher permitted to instruct in a subject that has not been made by him a major subject in University work.

**Special Training Courses for Teachers.** Several departments in the Teachers College also offer special methods in which they parallel their class-room theoretical work with practice work in the Training School. For the year 1912-1913 such work is offered in the following subjects: American History, Agricultural Botany, Chemistry, English Language and Literature, European History, German, Geography, Mathematics, Physics, Roman History and Literature. See "Courses of Instruction."

**Lincoln City Schools.** In addition to this model Training School maintained and controlled by the Teachers College, excellent facilities for observation of expert teaching are afforded by the city schools of Lincoln.

**A tuition fee** of \$13.50 a semester is charged each pupil registered in the Teachers College High School.

**DEPARTMENTAL METHODS COURSES**

Many of the departments of the Teachers College offer special courses giving instruction as to methods of teaching the subject matter peculiar to those departments. With the approval of the head professor of Educational Theory and Practice, two hours of such departmental method work in the student's major subject may be substituted for two hours of the required work in education. Courses of this kind offered for the current year may be found as follows: under "Courses of Instruction;" Agricultural Education; American History 12; Botany 33; Chemistry 29; English Language and Literature 29, 30 and 31; European History 45 and 46; Fine Arts 1; Geography 3; German 19; Greek History and Literature 40, 17, 18; Home Economics 13, 14; Mathematics 9 and 9a; Music 3; Physical Education 17 and 18; Physics 15, 16; Physiology 1 and 2; Pharmacodynamics 5; Rhetoric 32; Roman History and Literature 43 and 44; Romance Language 11 and 12; Zoology 1 and 2, and 36 (Nature Study).

## COURSES OF INSTRUCTION

**General Courses**—The courses of instruction in the Teachers College run parallel in the first two years with those of the College of Arts and Sciences, although the curriculum may include groups from the other colleges according to the election of the candidate. The aim is to give the student a liberal academic training before he begins his technical studies. In order that the candidate for the University Teachers' Certificate may have a proper foundation for the professional subjects of the Junior and Senior years, the academic courses are selective and must follow a definite sequence. In general the courses are broadly educational rather than narrowly so. The exceptions are the subjects purposely pursued with intensive aim.

### TECHNICAL OR PROFESSIONAL COURSES

The technical or professional courses in the Teachers College are embraced in the following six departments: (1) Education, (2) Educational Psychology, (3) Educational Theory and Practice, (4) Secondary Education, (5) Educational Administration, (6) Agricultural Education. Certain prescribed groups from these courses are required for the University Teachers' Certificate, others for the county certificate (See "Nebraska Certification Laws").

For the University Teachers' Certificate, the following professional courses are required: 1, 2, 4 or 14, and 19 or 20 or 21 or 22; also, such additional work as will give a total of 15 hours in technical education. Among the latter requirements, the student may substitute a two-hour special methods course in the department of his major subject on the approval of the Dean. Intending teachers should at the time of registration confer with the Dean of the Teachers College, that the courses may be properly arranged for the University Teachers' Certificate or for the particular certificate sought.

#### I. Education

Head Professor Luckey,\* Adjunct Professor Tibbets, Mr. Crago

The courses in Education are arranged in sequence, and are intended primarily for juniors, seniors and graduates. They should be pursued in

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\* On leave of absence. Head Professor Wolfe acting Head of department.

the order given unless the change is made on the advice of the instructor. Students should confer with the head of the department before registering.

To meet the need of pedagogical instruction in the normal training high schools and in the normal schools, the department offers a major in education as follows: (1) The major to include six hours in Education and three hours in Philosophy in addition to the present requirement of fifteen hours in Education and six hours in Philosophy for the University teachers' certificate; or (2) the major to include three hours in education and six hours in Philosophy in addition to the present requirement for the university teachers' certificate as given above.

For the above major in Education, courses 1, 2 and 4 in Education and 1 and 2 in Philosophy are required of all. The additional courses to make up the required number of hours may be elected by the student under the advice of the head of the department.

#### GRADUATE WORK

The chief aim of the department of education in its graduate work, is to furnish opportunity to school officers, teachers, superintendents and public spirited citizens for advanced study and investigation of important problems in education. A secondary aim is to advance the profession of teaching.

Candidates for advanced degrees in education must have completed the professional requirements leading to the University Teachers' Certificate or undergraduate credit in education equivalent to at least twelve semestral hours. Proficiency in one or more academic subjects taught in the high schools is also required.

Master of Arts Requirements—Second Minor: Four hours class-room work for one year. First Minor: Six hours class-room work for one year, with assigned readings equivalent to a two-hour course. Major: At least six hours class-room work for one year, assigned readings and a thesis representing the equivalent of a six-hour course for one year.

The major for the master's degree may be accepted as a minor for the doctorate. The department is not at present sufficiently equipped to encourage candidates for the doctor's degree in Education; however, facilities for a limited number of strong candidates can be provided. A major for the doctor's degree in Education requires three years of graduate work of not less than twelve semestral hours per year and a thesis equivalent to half as many more hours. The number of hours required for major and minor, as given above, is only approximate, and cannot be relied upon unless the quality of the work is of high order.

The department has a scholarship and a fellowship open to graduate students of special merit. The scholarship is open only to students of full graduate rank while the fellowship is open only to Masters or students of one year graduate standing in Education.

## COURSES

**1. History of Education.** Ancient and mediaeval, beginning with the earliest periods and extending to the time of Pestalozzi. A study of the physical, moral and intellectual development of mankind, including man's efforts to realize his ideals through systems of education. Especially valuable as a foundation to advanced work in education. Three hours attendance. Three hours credit. First semester. Luckey, Tibbets

**2. History of Modern Education.** From the time of Pestalozzi to the present, including the beginning, growth and present condition of education in America. Three hours attendance. Three hours credit. Second semester. Luckey, Tibbets

**3. Educational Classics**—A historical and critical study of the educational writings of Rousseau, Pestalozzi, Herbart, Froebel, and Spencer; a valuable preparation for course 4. Rousseau's *Emile*, Pestalozzi's *Leonard and Gertrude*, and Froebel's *Education of Man* are the subjects for 1912-1913. Three hours attendance. Three hours credit. First semester.

Luckey, Crago

**4. Child Study**—The physiology and psychology of childhood, with reference to the pedagogical principles involved; the literature and investigations of special value to the teacher; the more important methods used in child study; the effect of child study on methods of instruction, school management and other subjects of practical pedagogy. This course covers the development of the child for the first twelve years. It is a valuable foundation for the courses in adolescence. Three hours attendance. Three hours credit. Second semester. Summer Session, 1912. Luckey, Crago

**5. Systems of Education**—Their origin and development, including a comparative study of the leading systems of education in Europe and America. Two hours attendance. Two hours credit. First semester.

Luckey

**6. School Hygiene**—A seminary course devoted to the study of school environments and curricula in reference to their effect upon the health, growth and development of school children, including the location and sanitation of school buildings—light, heat, ventilation, furniture; medical inspection, school diseases, baths, and lunches; sleep, food, clothing, exer-

cise, study, fatigue, recreation, and health of teacher and pupils. Two hours attendance. Two hours credit. Second semester. Summer Session, 1912.

Luckey

7. **Graduate Seminary**—A study of current educational literature as found in the best periodicals, and a study of one or more educational problems of special interest to the teachers of Nebraska. Students will be directed in the preparation of theses that will lead to higher degrees in education. Open to graduates who are working for higher degrees in education. One or two hours credit. First semester.

Luckey

8. **Graduate Seminary**—7 continued. Second semester.

9. **Adolescence**—The health, growth, mental and moral development of youth as related to the various problems of secondary education, such as attendance, interest, habits of study, discipline, school spirit, ideals, character. An advanced course in child study especially adapted to secondary teachers, principals and superintendents. Prerequisite: Courses 1, 2, and 4. Two hours attendance. Two hours credit. First semester. Luckey

10. **Adolescence**—9 continued. Second semester.

## II. Educational Psychology

In charge of Head Professor Wolfe

11. **The High School**—Evolution of secondary education, showing when the different studies of the curriculum, methods of teaching, and ideals came in, and their meaning and their adaptation to the life of the times. Discussion of current high school problems in the light of this historical study and the study of adolescence. Special reference to public and private secondary schools in Nebraska. For those who wish to devote themselves especially to high school work or superintendence. Two hours attendance. Two hours credit. First semester.

Wolfe

12. **The High School**—15 continued, with more particular attention to the American high school. One or two hours attendance. One or two hours credit. Second semester. May be taken by qualified students without having taken 15.

Wolfe

16. **Educational Psychology**—A practical study of the factors which influence the development of body and mind. Open to teachers and also to students in the last two years of their course who have had a semester of psychology. Two hours attendance. Two hours credit. Second semester.

Wolfe

17. **Philosophy of Education**—The principles underlying all education and their influence in determining the material curricula in schools of instruction. Lectures, discussions, and private readings. Two hours attendance. Two hours credit. First semester. Wolfe

18. **Philosophy of Education**—17 continued. Second semester.

### III. Educational Theory and Practice

Head Professor Fordyce, Professor Taylor, Miss Allen, Miss Mayland, Miss Hill

#### GENERAL INFORMATION

The courses in this department are intended to offer the essential complement in practice to the theoretical courses in education; the intending teacher is introduced to the actual problems of the class-room through a study of the educational aims, values, and processes found in the Lincoln city schools and in the Teachers College Training School. In connection with the courses named below, one hour daily for one semester must be devoted to the observation and criticism of instruction and to actual teaching in the training school that the student may learn to judge good teaching in the light of the principles of education, and that his theories may settle into a system of efficient practice.

#### GRADUATE WORK

Candidates for advanced degrees in this department should have completed the equivalent of the requirements for the University Teachers' Certificate. Minors and majors will be arranged, in harmony with the regulations of the Graduate College, on consultation with the head of the department.

#### COURSES FOR UNDERGRADUATES

19. **Educational Theory and Practice in the Elementary School**—The development and formation of the principles of method as gained through lectures, assigned readings, and the study and discussion of the teaching process as observed in elementary schools; the preparation of lesson plans and practice in teaching. One hour daily during the semester must be arranged for observation and practice. Three hours attendance. Three hours credit, First semester. Fordyce

20. **Educational Theory and Practice in the Elementary School**—19 repeated. Second semester.

20a. **The Kindergarten**—A study of the educational aims, subject mat-

ter, and methods of instruction of the present day kindergarten. Three to five hours attendance with four to ten hours assistance in teaching. Two to five hours credit. First semester.

Allen

20b. **The Kindergarten**—20a continued. A study of the principles underlying the work of the primary schools and a comparison with that of the kindergarten methods, including a careful examination of the ways and means of correlating the work of the two. Three to five hours attendance with four to ten hours practice. Two to five hours credit. Second semester.

Allen

21. **Educational Theory and Practice in the Secondary School**—Lectures and assigned readings on the principles and technique of high-school instruction. The practical work consists of a critical study of the aims and methods exemplified in the Teachers College Training School and in the Lincoln city schools and of actual teaching to which one hour daily during the semester must be given. Three hours attendance. Three hours credit. First semester.

Fordyce

22. **Educational Theory and Practice in the Secondary School**—21 repeated. Second semester.

Note—A limited number who have had Education 21 or 22 are permitted to teach a class in the model high school during an entire year. Such students rank as assistants in the Teachers College Training School. These assistants are required to meet in weekly conference for consideration of the concrete problems that arise in the class-room work. Application for enrollment in these courses should be made the preceding semester.

23. **Supervision and Criticism of Instruction**—Open to graduates and seniors who are planning to become principals, superintendents or supervisors of normal training classes. The course consists of a critical study of the teaching activities demonstrated in the concrete problems growing out of class-room work. Two to three hours credit. First semester. Fordyce

24. **Supervision and Criticism of Instruction**—23 continued. Second semester.

25. **School Management**—An elementary course in the organization and management of elementary schools. For the accommodation of first and second-year students who desire to teach the following year. This course is not accepted as part of the requirement for the University Teachers' Certificate, although it meets the practical requirements for the first grade county certificate. Two hours attendance Two hours credit. First and second semesters.

Fordyce

26. **The Art of Study**—A consideration of the relation between the teaching process and the learning process together with practical lessons demonstrating the fundamental factors involved in study. Two hours attendance. Two hours credit. First and second semesters. Fordyce

### IIIa. Theory and Practice in the Physical Sciences

Professor Brownell, Assistant Professor Bengtson, Assistant Professor Filley, Miss Griffith

#### COURSES FOR THOSE WHO PLAN TO TEACH THE PHYSICAL SCIENCES IN HIGH SCHOOLS

27. **Teachers' Special Methods in Physics** (Physics 15)—Discussion in detail of methods and procedure in teaching high school physics. Guiding principles in the selection and adaptation of subject-matter and laboratory exercises. Choice of apparatus and supplies. Equipment and efficient administration of the laboratory. Difficulties of physics teaching in high schools generally. Such understanding and organization in the teaching procedure as may reasonably assure successful teaching service from the outset. Prerequisite: Courses 1, 2, 3, 4, or 11, 12, 13, 14. Two hours attendance. Four hours preparation. Two hours credit. First and second semesters.

Brownell

28. **Teachers' General Course in Physics** (Physics 15b)—Primarily for Summer School. The selection and working of experiments to constitute a year's course in high schools—qualitative and quantitative for laboratory and for lecture table. Organization of the subject-matter to be taught in connection with such experiments. Part of the subject presenting special teaching difficulties in high school work given careful exposition. The laboratory work a series of exercises fundamental in the teaching process. Two hours attendance. Two hours preparation. Four hours laboratory. Two hours credit.

Brownell

29. **Teachers' Special Methods in Chemistry** (Chemistry 29)—Discussion in detail of the methods and procedure in teaching high school chemistry. Guiding principles in the selection and use of subject-matter and laboratory exercises. Supplies, apparatus and equipment for a laboratory. Efficient laboratory service. Educational aims, and relation of class room instruction to laboratory work. Choice of text and reference books. Prerequisite: Courses 1, 2, 3. Two hours attendance. Four hours preparation. Two hours credit. First and second semesters.

Brownell

30. **Teachers' General Course in Chemistry** (Chemistry 29b)—Primarily for Summer School. Selection and working of experiments both for laboratory and lecture table to constitute a year's course in high school chemistry. Subject-matter to be taught in connection with such experiments. Attention to parts presenting special difficulties. Chemical theory suitable for high school work. Laboratory work made the basis of instruction. Two hours attendance. Two hours preparation. Four hours laboratory. Two hours credit.

Brownell

31. **Teachers' Special Methods in Physical Geography** (Geography 7)—Discussion of the subject-matter and methods of teaching Geography, especially of the Physical Geography of the high school. Relation of the various phases of the subject, and its distribution by grades in courses of study. Accumulation of illustrative materials, and selection of laboratory exercises. Collection and use of reference library books. Reports upon observations of grade teaching. Purpose and management of excursions and field studies. Prerequisite: Geography 1, 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Brownell, Bengtson

32. **Teachers' Laboratory Course in Physical Geography** (Geography 11a)—Involves working a selected list of exercises suitable for use in high schools. The teachers' problems in preparing for these exercises are studied, and some time given to discussion of suitable demonstration experiments for class use. Serves to prepare students for actual laboratory supervision. Four hours laboratory and conference. One hour credit. First and second semesters.

Bengtson

33. **Practice Course in Physical Sciences** (Physics 16, Chemistry 30, Geography 11b, Agriculture)—A semester of teaching of classes in high school sciences under closest supervision. Involves (a) class management and class instruction, making of lesson plans, review of examination papers, provision for desk experiments; (b) direction of laboratory work with sections of the science classes in the high school, care of the laboratory and its supplies, preparation in advance for experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. Two hours conference. Four hours laboratory. Three hours teaching. Two hours credit. First and second semesters.

Brownell, Filley, Griffith

## GRADUATE COURSES

51. **Practicum**—Book reviews, reports and discussions introductory to the

selection and consideration of problems for the basis of thesis work in advanced degrees. Two hours attendance. Two hours credit. First semester.

Fordyce

52. **Practicum**—51 continued. Second semester.

53. **An Investigation of the Problems in Educational Theory and Practice**—Two hours attendance. Two hours credit. First semester.

Fordyce

54. **An Investigation of the Problems in Educational Theory and Practice**—53 continued. Second semester.

55. **Criticism and Supervision of Instruction**—Open to graduate students and seniors who are either graduates of normal schools or experienced teachers, who intend to become principals or superintendents in public schools or supervisors of teachers' training classes. Hours and credit to be arranged. First semester.

Fordyce

56. **Criticism and Supervision of Instruction**—55 continued. Second semester.

#### IV. Secondary Education

Professor Reed

35. **The Secondary School**—A general course on the problems of the secondary school; its organization and equipment; relation of teacher to pupil, to principal, to board of education, to community, and to the profession; the program of studies; a balanced curriculum; questions of class organization; the library; the laboratory. Lectures, discussions, readings, and reports. Open to juniors, seniors and graduates. One hour attendance. One hour credit. First and second semesters.

Reed.

36. **The Accredited School**—Systems of admission to higher institutions. College entrance requirements. Accredited relations: theory; basis; effect on programs of studies, courses of study, and curricula. Inspection: theory, history, and methods. The secondary schools: organization; standard of excellence; tests of progress; teacher; equipment library, and laboratories. Open to seniors and graduates. One hour attendance. One hour credit. Second semester.

Reed

#### V. Educational Administration

Professor Taylor

37. **Educational Organization and Administration**—This course is planned especially for superintendents and principals. It deals with the problems of organization and administration of public schools as viewed

in the light of the prevailing systems in America. Among the topics considered are national and state control of education; the county, township, city and rural system; school building; play ground; the school as a social center; inter-relation of school boards; superintendents, principals, and teachers; supervision of instruction—the teaching staff, improvement of teacher in service; administration of secondary and elementary schools; education for defective and subnormal children; discipline, government, courses of study, grading and promotion. Open to seniors and graduates. Number of hours' credit depends upon work done. First semester.

Taylor

38. **Educational Organization and Administration**—37 continued.  
Second semester.

## VI. Agricultural Education

Head Professor Hunter

1. **Agricultural Pedagogy**—The educational value of industrial, and especially agricultural training; industrial training as applied to Nebraska and Nebraska problems; the part which the schools, rural and town, should take in education for rural life; courses of study and material for agricultural instruction in both rural and high schools; study of the preparation of the teachers of this work. Junior or senior year. First semester. Two hours attendance. Two hours credit. Hunter

## EDUCATIONAL COURSES IN THE CURRICULA OF OTHER COLLEGES

12. **American History**—Practical preparation for teaching of American history in Nebraska schools. History in the school curriculum; equipment, qualifications of a teacher, methods, aids; practice work in outlining and map making; observation and practice work in the Teachers College Training School and the Lincoln high school. Required of seniors expecting a teacher's major in American history; may be substituted for Education general methods course. One hour attendance; one hour observation and practice. Two hours credit. Second semester. Persinger

33. **Botany**—Open only to those who have had courses 1 and 2 and at least four hours more of advanced botany. Intended to help teachers in the grades, the high schools, and the colleges. Two lectures. Four hours laboratory. Two hours credit. First semester. Bessey

29. **English Language and Literature**—A practical study of the synthetic, interpretative and technical phases of presenting this subject in all

primary and secondary grades. Special attention given to outlining of courses, development of material, selection of books for school libraries and home readings. Experience in the preparation and presentation of topics will be gained in connection with the Teachers College Training School Practice Course in Teaching the English Language and Literature. Lectures, written reports, observation reports, criticism, library readings. Prerequisite: Courses 1, 2, 11, 12. Two hours attendance. Two hours credit. First semester.

Sherman, Stuff

**30. English Language and Literature**—29 continued. Prerequisite: Courses 1, 2, 11, 12, 17, 31. Two hours attendance. Two hours credit. Second semester.

Sherman, Stuff

**31. Teachers' Practice Course**—Daily practice in teaching study of problems arising from actual conditions in the class room. Special study of the lesson and its development. One teachers' conference each week. Prerequisites: English Language and Literature courses 1, 2, 11, 12, 29. 30. Two hours credit. First semester. Repeated second semester.

Stuff

**45. European History**—Must be preceded by 1 and 2. Two hours attendance. Two hours credit. First semester.

Fling

**46. European History**—45 continued. Second semester.

**Greek 40. The Fine Arts**—The interpretation of Art. This course is designed to help students to a sound criticism and appreciation of works of art. It aims to cultivate the aesthetic sense by discussion of the principles and qualities of art and by practice in interpreting pictures, sculpture, architecture, and decorative designs. It also deals with topics that have to do with the education of children; how pictures may be made useful in the school room in stimulating a love for the beautiful; how they may be helpful in other subjects; what pictures are suitable for the school room. Two hours attendance. Two hours credit. First and second semesters.

Dann

**3. Geography**—This course can be taken to best advantage when preceded by courses 1 and 2. It is open, however, to all persons preparing to teach geography. Both subject-matter and method are emphasized. Visits to the grade schools of the city, and to the Teachers College Training School, together with practice teaching. Some of the topics treated by class discussions and lectures are: Geography by grades in the state course of study; the purpose and management of excursions and field studies; illustrative materials and laboratory exercises; the library; the place of

industrial and commercial geography, regional geography illustrated by a study of Nebraska. Two hours attendance. Library, laboratory, field, four hours. Two hours credit. First semester. Condra, Bengtson

Political Economy 3. **Geography of Commerce**—A general survey of the fundamental conditions and human agencies affecting industrial and commercial industries, products and commerce of each of the principal countries of the world. Emphasis is laid upon the localization of industry and the consequent commercial relation between countries. Two hours attendance. Two hours credit. First semester. Stephens

17. **Greek History** (Prose Composition)—Advanced course. Especially for students expecting to teach. One hour attendance. One hour credit. First semester. Dann

18. **Greek History** (Prose Composition)—17 continued. Second semester.

13. **Home Economics**—Lectures with practice work in teaching. Two hours attendance. Four hours outside preparation, including practice teaching. Two hours credit. First semester. Bouton, Folger

14. **Home Economics**—13 continued. Second semester.

9. **Mathematics**—History of Mathematics. Two hours attendance. Two hours credit. Second semester. Candy

9a. **Mathematics**—Mathematical Pedagogy. The application of the principles of teaching mathematics in actual class work in the Training School. One hour credit. First and second semesters of the senior year. Hill

3. **Music** (Chorus Conducting)—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. The chorus will give a series of Vesper Services assisted by a string quartet. "The Messiah" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester. Raymond

4. **Music** (Chorus Conducting)—3 continued. Second semester.

17. **Physical Education**—(Consult instructors before registering.) Two hours attendance. Two hours credit. First semester.

Men, Clapp; Women, Gittings.

18. **Physical Education**—17 continued. Second semester.

**1. Human Physiology**—Lecture, demonstration and laboratory course: Two hours lecture. Three hours laboratory. Two hours credit. First semester.

Guenther

**2. Human Physiology**—1 continued. Second semester.

**5. General Pharmacology**—A course designed for teachers and students of biology who wish a general knowledge of the physiological action of drugs. The greater part of the time is devoted to the experimental study of the physiological and pathological changes induced by the narcotics and habit producing drugs. No prerequisites. One to two hours attendance. Two to four hours laboratory. One to two hours credit. First semester.

Lyman

**32. Rhetoric and English Composition**—Teachers' Course. Aims and methods of secondary-school instruction in rhetoric and English composition. General principles of composition. Discussion of text-books; themes. The management of theme courses. Practice in correcting themes. Open to juniors, seniors, and graduates. Required of candidates for the University Teachers' Certificate in Rhetoric and English Composition. One hour lecture; three hours reading and observation. Two hours credit. Second semester.

Frye, Fogg

**43. Roman History and Literature**—Lectures on methods of teaching Latin and on subject matter often overlooked. Model reading of sub-freshman authors. Courses 43 and 44 may be taken in lieu of two hours in general methods in the department of Education. One hour attendance. One hour credit. First semester.

Barber

**44. Roman History and Literature**—43 continued. Second semester.

**11. Romance Languages** (French Writing and Speaking)—Advanced course. Two hours attendance. Two hours credit. First semester.

Conklin

**12. Romance Languages** (French Writing and Speaking)—11 continued. Second semester.

**36. Zoology** -(Ornithology and Nature Study)—A course in ornithology which may be supplemented by a systematically arranged series of problems designed to train the power of direct observation and deduction from such observation. Planned especially for those expecting to teach in the grades. May be elected as a one hour course in ornithology, demanding one hour attendance and an average of two hours of field and laboratory work weekly, or as a two hour course, demanding in addition a conference

hour and an additional field or laboratory period of two hours. Second semester. Open to all, and not recognized in fulfillment of the group requirement for a degree.

Wolcott, Zimmer

### **SPECIAL ONE-YEAR AND TWO-YEAR TEACHERS' COURSES IN TECHNICAL SUBJECTS**

Special courses, as follows, may be arranged on consultation with the Dean: Agriculture, Manual Training, Physical Training, Drawing and Modeling, Oral Reading, Public Speaking and Dramatic Interpretation. These are intended for high or normal school teachers and others preparing to become such, who, for any reason, find it impossible to take the full course for a bachelor's degree, which lays a more ample foundation. Those who enter any of these courses are presupposed to be able at least to meet the requirements for "Adult Special" registration.

# Courses of Instruction

in

The Graduate College, The College of Arts and  
Sciences, and The Teachers College

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### **Explanatory Note**

Courses included between brackets [ ] are not given in 1912-1913.

Students must consult advisers before registering.

Students registered in the College of Agriculture, College of Engineering, College of Law, College of Medicine and the School of Pharmacy are privileged to select courses from the following departments which may apply as electives in regular courses of study.

Likewise students registered in the Graduate College, the College of Arts and Sciences, and the Teachers College may select courses from the departments exhibited in the colleges named above.

## AMERICAN HISTORY

Head Professor Caldwell, Associate Professor Persinger, Associate Professor Jones, Professor Maxey, Miss Barnes, Mr. Kendrick

### UNDERGRADUATE WORK

**Order of Courses.**—Courses 1, 2, 3 and 4 (American), 29 and 30 (English) are general or introductory, and 1 or 29 should usually be taken first by students entering the department. Those wishing to specialize or prepare for teaching should take the first four in order; but those above the Freshmen year who have time for only one year's work may take 3 and 4 alone. Before registering for advanced courses, students are recommended to advise with instructor.

**Teachers' Certificate.**—For 20-hour major: Courses 1, 2, 3, 4 and 12 (including at least one semester of practice teaching in the Temple high school) required; other six hours may consist of American History 29 and 30, or European History 1 and 2, or Political Science 1 and 2. For 16-hour major: Courses 1, 2, 3, 4, 5, and 12 (including at least one semester practice teaching in the Temple high school). For 12-hour minor: Courses 1, 2, 3, 4.

**Specialization.**—Students expecting to specialize in the department are advised to take, as early in their University work as possible, the general courses in European history, political science and sociology, and political economy. Those intending to specialize in debating, political economy and political science and sociology, are advised by these departments to take as early as possible the general courses in American history.

**Vocational Training.**—By co-operation with other departments, the department of American History is able to offer vocational preparation for those expecting to enter upon country newspaper or editorial work. Groups of courses have been prepared conforming to the general requirements of the College of Arts and Sciences, and at the same time affording specialization along the above lines during sophomore to senior years. Students wishing to take advantage of this vocational grouping should elect their arts and sciences "major" in the department of American History, and on first consultation with the departmental "adviser" should indicate which one of the above vocational lines is intended to be followed.

### GRADUATE WORK

**Objects.**—Graduate work in the department of American history affords

opportunity to prepare for any one of the following four lines of work: (1) The teaching of American history in the best high schools of Nebraska and adjoining states, and in seminaries, academies, and colleges. (2) Fellowships or instructorships in the older and large universities. (3) Investigational work in corporate, state, or national service. (4) Historical research and writing.

Time.—From one to three (or more) years may be given to this preparation, under the direct advice and assistance of the instructors in the department, and culminating in the degrees of Master of Arts and Doctor of Philosophy. There are also exceptional opportunities for study in the collateral subjects of English and European history, political science and sociology, and political economy and commerce.

Facilities.—The University, State, and State Historical Society libraries afford a wide range of original material for work along many lines of historical investigation. Graduate students have free access to all these libraries, and in addition have for their use a seminary room in which are placed all books needed in their particular lines of research. Books not already on the shelves will be purchased or obtained from other libraries when necessary for thesis or other advanced work. Special seminary courses are offered; and investigation in the history of Nebraska and other states of the plains region will be undertaken and the results published from time to time.

General Requirements.—Undergraduate Courses 1 to 4 and 29 and 30 do not count toward a higher degree, but these or their equivalents and a fair knowledge of general history must be presented by candidates for advanced degrees. Unless this eighteen hours of thorough undergraduate preparation is actually presented, candidates for the Master's or Doctor's degree in this department should count on at least one full semester more of work than would otherwise be required for either degree.

Requirements for Master of Arts.—Work for the Master's degree may be taken in the department as follows: (1) All the work for the degree, including the thesis, in the department. The minimum requirement is one full year's work, including a satisfactory thesis. (2) A major (60%) and the thesis in this department, and the remainder in either one or two other departments. (3) a double minor (40%) or a single minor (20%) in this department, and a major and the thesis in some other department. In any case, the particular courses to be taken are arranged by the candidate and his instructors in such manner as to conform to the plans and preparation of each applicant.

Requirements for Doctor of Philosophy.—The minimum for the degree

of Doctor of Philosophy is three full years of graduate work, including the presentation of a satisfactory thesis. The work must be taken in at least two departments and may include three. For a major, 60 per cent. of the time must be given to this department; for a double minor, 40 per cent.; and for a single minor, 20 per cent. The thesis in all cases goes with the major. The particular courses to be pursued are arranged on consultation between the candidate and the heads of the departments in which his work is to be taken. Those taking a major in this department are expected to have a good general knowledge of European history and a fair acquaintance with the principles of political economy, public law, political science, and sociology. The thesis must show a reasonable degree of original research and independent treatment.

## COURSES PRIMARILY FOR UNDERGRADUATES

1. **Colonial Period, 1492-1763**—European discovery of and rival colonizations in America; development and institutions of the English colonies; relation to each other and to the mother country; French and Indian War. Three hours attendance. Three hours credit. First semester, and summer session of 1913.

Barns, Kendrick

2. **Revolutionary Period, 1763-1783**—Continuation of 1, but open to new students. Constitutional and political relations of colonies and mother country in 1763; causes and results of revolution and independence; beginnings of state and national governments. Three hours attendance. Three hours credit. Second semester, and summer session of 1912.

Barns, Kendrick

3. **Early National Period, 1783-1820**—Formation and interpretation of constitution; foreign affairs and war of 1812; beginning of slavery struggle—the Missouri compromise; political issues. Not open to first-year students. Three hours attendance. Three hours credit. First semester, and summer session of 1913.

Caldwell

4. **Later National Period, 1820-1861**—3 continued; open to those who have had 3 and also to seniors. Development of state sovereignty; nullification; annexation of Texas; war with Mexico; annexation of territory; slavery struggle. Three hours attendance. Three hours credit. Second semester, and summer session of 1912.

Caldwell

12. **Teachers' Course**—Practical preparation for the teaching of history in the high schools of Nebraska. One hour's credit for class work covering place of history in the school curriculum, methods of teaching, etc. One hour's credit for at least one semester of supervised practice teaching

in American History in the Temple high school. Required of seniors expecting either 20-hour or 16-hour teacher's major in the department. Two hours credit. Second semester.

Persinger

[13. **Nebraska History and Political Institutions**—See Political Science course 13. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.*

Sheldon]

[14. **Nebraska History and Political Institutions**—Continuation of 13. See Political Science course 14. Two hours attendance. Two hours credit. *Not given in 1912-1913.*

Sheldon]

## COURSES FOR UNDERGRADUATES AND GRADUATES

5. **Secession, Civil War and Reconstruction, 1860-1877**—The Civil War; its effects; the problem of reconstruction; impeachment of President Johnson; polities to 1877.\* Prerequisite: At least one year's work in the department. Two hours attendance. Two hours credit. First semester, and summer session of 1913.

Caldwell

6. **The New Nation**—Reorganization; social and industrial problems; expansion. Two hours attendance. Two hours credit. Second semester, and summer session of 1912.

Caldwell

8. **History of American Political Parties**—Colonial foundations and Revolutionary beginnings; origin, course, and influence of the great parties since 1783; analyses of platforms and votes; third-party movements and their effects. Prerequisite: Courses 1 and 2 or 3 and 4 or special permission of instructor. Two hours attendance. Two hours credit. Second semester.

Persinger

[9. **External Expansion**—European rivalries in America; making of the United States; diplomacy, polities, and geography of the various acquisitions; development of system of government and administration for territories and dependencies. Prerequisite: One year's work in the department or special permission of the instructor. Three hours attendance. Three hours credit. First semester. *Not given in 1912-1913.*

Persinger]

[10. **Public Lands Policy and Laws of the United States**—Development of the successive "Wests" of American History; governmental policy and laws as to distribution of lands to settlers in each "West"; rise of distinction between agricultural, mineral, grazing and forest lands; state public lands and land policies; the conservation movement. Text,

reference and research work. Two hours attendance. Two hours credit. Second semester. Given only in alternate years. *Not given in 1912-1913.*

Persinger]

**15. Constitutional History of the United States**—Origin of the Union and federal system; confederation and its failure; constitution, formation and interpretation; growth of unwritten constitution; development through amendments, custom, and judicial decisions. Two hours attendance. Two hours credit. First semester. Caldwell

**16. Constitutional History of the United States**—15 continued. Two hours attendance. Two hours credit. Second semester. Caldwell

**18. Spanish America**—Brief review of Spanish colonial development in the Americas, Spanish-American independence, and diplomatic relations with the United States; more detailed study of present Spanish-American institutions, conditions, and opportunities. Study for 1912-1913 will center about either Chile or Argentina. Open to advanced students. Two hours attendance. Two hours credit. Second semester. Persinger

**19. Conference on History in the Grades**—Subject for 1912-1913 will be that of history work in the first to sixth grades of the common schools. Open to those engaged or expecting to be engaged in teaching in the grades. On permission of instructor, may be attended without registration or credit if necessary. One hour attendance. One hour credit. Second semester. Persinger

**20. Conference on History in the Grades**—Continuation of 19. Second semester.

**22. American Diplomacy**—Organization of Department of State and of diplomatic service. Methods. Problems and controversies growing out of them. Change in our diplomatic policy. Two hours attendance. Two hours credit. Second semester. Maxey

#### COURSES PRIMARILY FOR GRADUATES

**23. Seminary on American National History**—For graduate students, except on permission of instructor. Two hours attendance. Credit varies. First semester. Caldwell

**24. Seminary on American National History**—23 continued. Second semester.

**27. Bibliography of American History, 1000-1783**—A required course for all graduate students majoring in the department; recom-

mended for all other graduate students in the field of American history. One hour attendance. One hour credit. First semester. Persinger

28. **Bibliography of American History, 1783-1909**—Continuation of 27. Second semester.

33. **Nebraska Legislative Practice and Problems**—See Political Science course 33. Two hours attendance. Two hours credit. First semester. *Given in 1912-1913.* Sheldon

34. **Nebraska Legislative Practice and Problems**—Continuation of 33. See Political Science course 34. Two hours attendance. Two hours credit. Second semester. *Given in 1912-1913.* Sheldon

33a. **Seminary on Nebraska History, Politics and Economics**—Combined research seminar of the departments of American History, Political Science and Sociology and Political Economy. General subject for 1912-1913 will be the earlier periods of Nebraska; special assignments may be made upon any phase of Nebraska's development if desirable and convenient. Open to advanced undergraduates on consultation with instructors, and to graduates. Two hours attendance. Two hours credit. May be registered for in any one of the three departments. Given every year. First semester.

Caldwell, Le Rossignol, Virtue, Persinger, Stephens, Sheldon

34a. **Seminary on Nebraska History, Politics and Economics**—33a continued. Second semester.

37. **Graduate Conference**—Meeting of professors, fellows, scholars and graduate majors for discussion of professional or technical subjects, book reviews, methods, etc. No credit. First semester.

38. **Graduate Conference**—37 continued. Second semester.

### **English-American History**

COURSES PRIMARILY FOR UNDERGRADUATES

29. **English History (until 1603) leading up to American Colonization**—English feudalism; church and state; formation of the English nation; development of Parliament; rise of cities and the agrarian revolution; the new monarchy; the renascence, geographical discoveries, and abolition of papal jurisdiction; the Reformation. Character of English society at the moment of American settlement. Three hours attendance. Three hours credit. First semester. Jones

30. **Modern English History (after 1603) as related to American History**—Puritan revolution; revolution of 1688 and rise of the cabinet; struggle for colonial supremacy; the House of Hanover and the American revolution; influence of the French Revolution; social reforms; democracy and empire; successive emigrations to America. Three hours attendance. Three hours credit. Second semester. Jones

31. **Contemporary History**—Recent political events in Great Britain, Germany, France, Italy and Russia, and the relations of these countries to the United States. History and present status of European alliances; Morocco; the Balkan question. Open to juniors and seniors and adult special students. Two hours attendance. Two hours credit. First semester. Jones

32. **Contemporary History**—American commercial and colonial expansion in the Americas and the Orient: The South American states; Cuba, Porto Rico, the Philippines; Canada; Mexico and Central America; China, Japan and the Far Eastern Question. Open to juniors and seniors and adult special students. Two hours attendance. Two hours credit. Second semester. Jones

#### COURSES FOR UNDERGRADUATES AND GRADUATES

35. **Seminary**—The Anglo-Portuguese Treaty of 1654, based upon a nearly complete transcript of the manuscript sources in English and Portuguese archives supplemented by all the available printed material. Open to graduates and advanced students upon permission of the instructor. Two hours attendance. Two hours credit. First semester. Jones

36. **Seminary**—The Anglo-Portuguese Treaty of 1661, based upon material as in course 35. Open to graduates and advanced students upon permission of the instructor. Two hours attendance. Two hours credit. Second semester. Jones

#### ANATOMY\*

(See "Anatomy," College of Medicine)

Professor Poynter

The aim of the work in the following courses in Anatomy is to give the students such a knowledge of the human body as will enable them to intelligently apply the principles of Physiology, Physical Culture, and Hygiene to the individual problems they encounter. Cooperation in the great

\* No credit can be given for these courses in the College of Medicine.

movement for the conservation of health demands a more exact knowledge of the structure of the body than can be gained from the brief study in the grades.

**15. Anatomy for Students of Physical Training**—A course designed to acquaint students of physical training with a general knowledge of the human body and a more detailed knowledge of the muscular system, the peripheral vessels and nerves of the viscera. It must be preceded by Zoology 1, 2, and 7. Two hours attendance. Six hours laboratory, with demonstrations. Three hours credit. First semester. Poynter

**16. Anatomy for Students of Physical Training**—15 continued. Second semester.

**17. Anatomy for Students of the Teachers College**—It is the design of this course to acquaint students with the general facts of development, microscopic and gross structure of the body, together with a detailed study of the structures and organs particularly related to the questions of health and disease of special interest to teachers. The course is intended to precede Education 4 and 6. Prerequisite: Botany or Zoology. Three hours attendance. Three hours credit. First semester. Poynter

## ASTRONOMY

Professor Swezey, Associate Professor Loveland, Associate Professor Brenke

### GENERAL INFORMATION

The Astronomical Observatory with its telescope and other instruments furnishes to elementary students an opportunity to study at first hand the more interesting heavenly bodies. They are given some practice in such exercises as finding accurate time by the stars, determining the latitude of the Observatory, and recognizing with the spectroscope the various elements present in the sun and stars. For advanced work the telescope is equipped with photographic, photometric and spectroscopic appliances; the meridian circle, zenith telescope, transit instrument, and sidereal clock and chronometers furnish facilities for the more important problems in the astronomy of precision.

The location on the campus of the United States Weather Bureau with its self-registering instruments and its daily compiling and printing of a weather map, add much interest to the study of meteorology. A complete series of the daily weather maps for many years furnish original data for all sorts of climatological studies.

For the University Teachers' Certificate the following is the requirement for a major: not less than sixteen hours in courses 5-14; for a minor, not less than twelve hours in these same courses.

#### GRADUATE WORK

**Master of Arts.**—Any of the courses offered to graduates and comprising six hours credit may constitute a minor for a student who takes two minors for his degree. Any two such courses may be taken as a single minor. Two such courses and a thesis constitute a major.

**Doctor of Philosophy.**—The department does not undertake major work for this degree, but the courses offered for the degree of Master of Arts may be chosen as minors by candidates for the doctorate taking their majors in other departments.

#### COURSES PRIMARILY FOR UNDERGRADUATES

##### Meteorology

**1. Practical Meteorology**—A study of the uses of Meteorology in every day life. One hour attendance. One hour credit. First and second semesters. Loveland

**2. General Meteorology**—The earth's atmosphere, including composition and extent, temperature, moisture, dew, frosts, clouds, precipitation, winds, and storms. Lectures, readings and laboratory work in constructing weather maps and making forecasts. Course 1 not prerequisite, but may be taken with course 2. Two hours attendance. Two hours credit. First and second semesters. Loveland

**3. Weather Forecasting**—Laboratory course in study of storms and principles of forecasting. Organization and work of weather services of the world. Prerequisite: Course 2. One hour attendance. One hour credit. Second semester. Loveland

##### Elementary Astronomy

Courses designed to give such a knowledge of astronomy as every educated person should possess. They involve no difficult mathematical calculations, but include many simple exercises in plotting the positions and motions of the heavenly bodies. Some use of the telescope, spectroscope and other instruments of the observatory.

**4. The Stars**—Lectures, illustrated with lantern, on various astronomical subjects; collateral readings and exercises. One hour attendance. One hour credit. First semester. Swezey

**4a. The Solar System**—Similar to course 4, but may precede it. One hour attendance. One hour credit. Second semester. Swezey

**5. General Astronomy**—Open to beginners, but students may take courses 4 or 4a with it if desired. Text-book, illustrated lectures, readings and exercises. Two hours attendance. Two hours credit. First and second semesters. Swezey

**6. General Astronomy**—Course 5 continued. Second semester.

### Advanced Astronomy

#### COURSES FOR UNDERGRADUATES AND GRADUATES

(Courses 11 to 14 are more extended courses in general astronomy, for which course 5 is prerequisite; they may be taken in any order. Numerous exercises in them are best worked by plane trigonometry, but graphical methods can always be used if necessary.)

**11. Systems of Stars**—Three hours attendance. Three hours credit. First semester. Swezey

**12. Comets and Meteors**—Two hours attendance. Two hours credit. First semester. Swezey

**13. The Planets**—Three hours attendance. Three hours credit. Second semester. Swezey

**14. The Sidereal Universe**—Two hours attendance. Two hours credit. Second semester. Swezey

### Practical Astronomy

Involves the use of instruments of precision. For teachers or specialists in astronomy or engineering. Courses 4 to 8 are not prerequisite, but would be a useful introduction.

**15. Spherical and Practical Astronomy**—Theory and use of telescope, transit instrument, meridian circle, and zenith telescope. Prerequisite: Plane trigonometry. Three hours attendance. Three hours credit. First and second semesters.

**16. Spherical and Practical Astronomy**—15 continued. Second semester.

**17. Field Astronomy for Engineers**—Methods of finding latitude, longitude, time and the meridian by means of transit. Three hours attendance. Three hours credit. First and second semesters. Brenke

**18. Geodetic Astronomy**—Methods of finding precise azimuths and latitudes, as employed by the U. S. Geodetic Survey. Involves the use of a theodolite equipped with micrometer microscopes. Three hours attendance. Three hours credit. Second semester. Brenke

**Mathematical Astronomy**

(Involving calculations, but not observations)

21. **Celestial Mechanics**—Requires the calculus. Three hours attendance. Three hours credit. First semester. Brenke  
22. **Celestial Mechanics**—21 continued. Second semester.

**Climatology**

23. **Climatology**—Climates of different parts of the world. Causes of these differences. Prerequisite: Course 2. One hour attendance. One hour credit. One or two additional hours credit may be secured by further work in the study of the climates of selected localities. First semester.

Loveland

24. **Climatology**—23 continued. Second semester.

**BACTERIOLOGY AND PATHOLOGY**

Professor Waite, Adjunct Professor Putnam

## GRADUATE WORK

As requirements for registration in this department for advanced degrees the applicant must have completed work equivalent to that of a general scientific course in this University. The ability to read German and French is necessary. Before registration for an advanced degree the candidate must consult the head of the department.

Master of Arts.—Second minor: Courses 1, or 2a and 3, or 2a and 4. First Minor: Course 1 and its equivalent along some special line of research. Major: Advanced work following the courses outlined above with a thesis.

Doctor of Philosophy.—Minors: The minimum requirement will be the equivalent of six hours of class work approved by the head of the department. Major: The candidate must have a thorough knowledge of general bacteriology equivalent to that required for the degree of Master of Arts. In addition to this he must have pursued and completed some original problem and must embody the results of his work in a thesis. The minimum time requirement must be at least that required by the University for the degree.

1. **General Bacteriology**—Form, structure, manner of multiplication, reproduction, requirements of growth, and chemical products of bacteria. Relation of bacteria to fermentation and putrefaction and the means by which complex organic compounds are reduced to simple inorganic forms. Disinfection, sterilization, theories of immunity. Non-pathogenic and pathogenic forms. Four hours attendance. Eight hours laboratory. Four hours credit. First semester.

Waite, Putnam

**2a. Elementary Bacteriology**--An introduction to the study of bacteriology. The relation of bacteria to other organisms. Their morphology and structure, chemical composition, and chemical changes which they produce. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Waite, Putnam

**3. Dairy Bacteriology**--Sources of bacteria in milk. Lactic and butyric acid fermentations, peptonizing, rennet-forming and butyric acid-producing bacteria. Abnormal fermentations giving rise to slimy, bitter, red, blue, yellow and green milk. Relation of milk to spread of tuberculosis, typhoid fever, and other diseases. Sterilization and pasteurization. Bacteria in butter making. Microorganisms concerned in the production of cheese. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Waite, Putnam

Courses 3 and 4 must be preceded by either course 1 or 2a.

**4. Agricultural Bacteriology**--The nitrogen problem. Bacteria in ammoniacal fermentation, nitrification and denitrification. Bacteria as a means of reclaiming nitrogen lost from the soil. The employment of pure cultures in growing leguminous plants. Azoto bacteria. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Waite, Putnam

### BIOMETRY

(See Mathematics)

### BOHEMIAN

(See Department of Slavonic)

### BOTANY

Head Professor Bessey, Professor Wilcox, Associate Professor Pool, Associate Professor Sponsler, Assistant Professor Walker, Adjunct Professor Walker, Miss Hannah, Miss Bates, Miss Anderson, Miss Dworak, Miss Johnson, Miss Kramer, Mr. Folsom

### GENERAL INFORMATION

Students entering upon undergraduate botanical work must take courses 1 and 2 or present an equivalent, and are recommended to take 3 and 4, especially in case of preparation for teaching the subject. After this nearly all of the courses are open to election.

For the University Teachers' Certificate in Botany the following courses are recommended: for a 20-hour major, courses 1, 2, 3, 4, 19, 20; for a 16-hour major, courses 1, 2, 3, 4, and 33; for a 12-hour minor, courses 1, 2, 3, 4,

Five laboratories,—general, advanced, physiological, and mycological,—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glassware, and other supplies and apparatus.

See, also, Agricultural Botany.

The Botanical Seminar holds open meetings every two weeks for the reading of papers and discussion of botanical questions. To these meetings all students in the department are welcome. Membership in the Seminar is restricted to advanced students of Botany who after invitation succeed in passing the rather severe entrance examinations set for them.

#### GRADUATE WORK

Before formal registration for a degree for graduate work in this department the student must have satisfactorily completed General Botany (Courses 1, 2, 3, and 4) and Plant Physiology (Courses 19 and 20) or their equivalent (20 hours), and one year of Zoology. He must also be able to read Latin, French, and German.

The research laboratory supplied with microscopes, microtomes, culture apparatus, etc., is for the exclusive use of graduate students. The University Herbarium, of considerably more than 200,000 specimens (now temporarily deposited in the University Museum) and the botanical library are open every work day of the week for study and consultation. For certain lines of graduate work the department has photographic cameras and a dark-room. The department in connection with Agricultural Botany is prepared especially to offer graduate instruction in plant pathology.

Master of Arts.—Candidates may select from the following courses: Majors: Cytology, histology, Courses 13 to 36 in systematic botany, mycology, plant ecology, plant pathology, economic botany. Minors: Any Courses excepting 1, 2, 3, 4, A, 19, and 20.

Doctor of Philosophy—Majors: Systematic problems, morphological problems, ecological problems, physiological problems, pathological problems, economic botany. Minors: Any Courses excepting 1, 2, 3, 4, A, 19, and 20.

#### COURSES FOR UNDERGRADUATES

##### A. General Botany

Recommended to all students intending to make a thorough study of the science.

**1. General Botany**—Introduction to the structure of plants (cells, tissues, tissue systems). General survey of the plant kingdom, including blue-green and green algae and also the bacteria and some fungi. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Bessey, L. B. Walker

**2. General Botany**—The general survey continued, including brown and red algae, the fungi (including lichens), to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Bessey, L. B. Walker

**1 and 2. Botany Arranged for Summer Session**—A study of the structure and activities of selected representatives of the various groups of plants in the vegetable kingdom, beginning with the lowest and ending with the highest. One lecture a day by Professor Bessey, followed immediately by five hours of laboratory work under the charge of a competent assistant. It meets the needs of those who expect to teach botany in the high schools, and it takes up the topics in the sequence recommended to teachers in such schools. It will satisfy the University's requirements for six hours credit in General Botany, so that it may be taken profitably by college and university students who wish to pursue this subject, after consulting with the professor. Five lectures, one quiz and twenty-five hours of laboratory work and assigned readings per week. Six hours credit. Bessey

**3. General Botany**—A more detailed study of the structure and classification of Myxophyceae to Carpomycetaceae, with particular reference to their identification; cell-division, formation of the primary tissues and introduction to cytological technique. Three hours lecture. Eight hours laboratory. Four hours credit. First semester.

E. R. Walker

**4. General Botany**—A similar study of Bryophyta to Anthophyta; their origin and relationships; spore formation and the development of the embryo. Three hours lecture. Eight hours laboratory. Four hours credit. Second semester.

E. R. Walker

## B. Special Botany

### I. Histological Botany

**5. Cytology**—Plant cell and karyokinesis in lower and higher plants with cytological technique. One hour lecture. Six hours laboratory. Two hours credit. First semester.

E. R. Walker

**6. Histology**—Tissues and tissue aggregates in higher plants, with the technique of staining and mounting. With special reference to woody plants. Must be preceded by 1 and 2. Two hours lecture. Eight hours laboratory. Three hours credit. Second semester.

E. R. Walker

## II. Systematic Botany

13. **Flowering Plants**—Principles of the classification of Monocotyledons and their particular application to the Grasses. Two hours lecture. Four to twenty hours laboratory work in the field and herbarium. Two to six hours credit. First semester.

14. **Flowering Plants**—Principles of the classification of Dicotyledons and their particular application to the Composites. Otherwise as in Course 13. Second semester. Bessey

B. **Systematic Botany**, for Teachers—Field work and laboratory work under the direction of the professor, with occasional lectures or conferences. Two to eight hours credit. Summer Session. Bessey

15. **Mycology**—A survey of the development and present condition of our knowledge of fungi. The general morphology, physiology, life history, and classification of the Phycomycetes, Ascomycetes, Basidiomycetes and Fungi Imperfecti. The laboratory work familiarizes the student with the current histological technique for the preparation and detailed study of different fungous structures. Three hours lecture. Eight hours laboratory and field work. Three hours credit. First semester. L. B. Walker

16. **Mycology**—15 continued. Second semester. The role of fungi in the production of plant diseases receives special treatment in this course. The development and condition of our present knowledge of plant diseases. Pathological centers and the literature of plant diseases. Bacterial diseases; diseases caused by filamentous fungi. The most typical and important diseases of our common plants are discussed. The laboratory work familiarizes the student with modern pathological technique, including the preparation of the various culture media. Three hours lecture. Eight hours laboratory and field work. Three hours credit. Second semester.

L. B. Walker

23. **Advanced Mycology**—Study of a selected group of fungi, including morphology, development and classification. Two lectures or conferences. Four to thirteen hours laboratory. Two to five hours credit. Pool

24. **Advanced Mycology**—23 continued. Second semester.

[25. **Forest Mycology**—An adaptation of courses 15 and 16 for students in horticulture and forestry. The general morphology and physiology of fungi, followed by a detailed study of the morphology, physiology, development, and classification of the fungi which attack the leaves, stems and roots of woody plants, especially of forest trees. Field trips for the recognition and the collection of material. Two hours attendance. Six hours laboratory and field work. Two hours credit. First semester. Not given in 1912-1913. Pool]

31. **Botanical Literature**—Library work with frequent conferences. Prerequisites: Courses 1, 2, 3, 4, 19, 20 or equivalents. Two to four hours credit. First semester.

Bessey

32. **Botanical Literature**—Continuation of Course 31.

35. **Dendrology**—Brief review of the morphology and physiology of the trees; identification of the common forest trees, their economic and aesthetic importance; light, moisture and soil requirements; distribution throughout the United States. Two hours attendance. Four hours laboratory and field work. Two hours credit. First semester.

Sponsler

36. **Dendrology**—Detailed study of the important forest trees of the United States; identification, distribution, importance, silvical requirements, classification. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester.

Sponsler

### III. Physiological Botany

19. **Plant Physiology**—An introductory study of the processes and functions of plants. Including imbibition; osmosis, absorption; the relation of the soil and of solutes to the plant; the movement of substances in the plant body; transpiration; guttation; bleeding; maintenance of bodily form; turgor; secretion; waste products. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Pool

20. **Plant Physiology**—Photosynthesis; the manufacture and assimilation of foods; stomatal relations; the nitrogen cycle; the storage and digestion of foods; respiration and fermentation; growth and movement; irritability; stimulus and response; correlation; reproduction of plants. Three hours attendance. Six hours laboratory. Three hours credit. Second semester.

Pool

21. **Plant Ecology**—A study of the relation of plants to their environment. Ecological factors; methods of studying vegetation. The plant formation. The origin, development, structure and succession of plant formations. Alteration and zonation. A study in the field and greenhouse of factors of the habitat by means of cultures and instruments. Designed to give a general view of the matter and methods of modern ecology. Prerequisites: Courses 19 and 20. Two hours attendance. Four to six hours laboratory and field work. Two hours credit. First semester.

Pool

22. **Plant Ecology**—A further study of the theories and of the methods of ecology in the field. Detailed field studies will be made in the prairie, woodland and salt-marsh formations about Lincoln. The plant formations and successions in various parts of the United States will also be treated.

Prerequisites: Courses 19, 20, and 21. Two hours attendance. Four to six hours laboratory and field work. Two hours credit. Second semester.

Pool

#### IV. Technical Botany

**33. Field Botany**—An introductory course intended to acquaint students and teachers with some of the materials and methods of out-of-door work in botany. Suggestions for those intending to teach in the grades, the high schools and the colleges. Prerequisites: Courses 1 and 2. Two lectures. Four hours field and laboratory work. Two hours credit. First semester.

Pool

**34. Field Botany**—33 continued. Suggestions as to the composition and arrangement of the high school course; what to do in the laboratory; what to do in the field; how to collect material and to prepare it for future use; the preparation of the herbarium and other illustrative material; books, guides and other useful literature; sources of materials and supplies. Prerequisites: Courses 1, 2 and 33. Two lectures. Four hours field and laboratory work. Two hours credit. Second semester.

Pool

**37. The Study of Woods**—Study of structure of important woods leading to identification and relation of structure to strength, weight, shrinkage, and other physical properties. Primarily for foresters; engineers may elect this course for two hours credit after consultation with the instructor. Prerequisite for foresters: Botany 6. Two hours attendance. Six hours laboratory. One hour reading. Three hours credit. First semester.

Sponsler

#### COURSES FOR GRADUATES ONLY

(The student may register for any one of these courses year after year until the completion of his problem.)

**39. Economic Botany**—An advanced study of the uses of plants; the origin, distribution, and modifications of cultivated plants; and the systematic botany of the plants used by man. Open only to students who have had a sufficient training in systematic botany. Five or ten hours credit. First semester.

Bessey

**40. Economic Botany**—39 continued. Second semester.

**41. Systematic Problems**—Assigned problems in the field and herbarium. Five or ten hours credit. First semester.

Bessey, Pool

**42. Systematic Problems**—41 continued. Second semester.

**43. Morphological Problems**—Assigned problems in the morphology of a plant, or group of plants. Five or ten hours credit. First semester.

Bessey, E. R. Walker

44. **Morphological Problems**—43 continued. Second semester.
45. **Ecological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester. Pool
46. **Ecological Problems**—45 continued. Second semester.
47. **Physiological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester. Pool
48. **Physiological Problems**—47 continued. Second semester.
49. **Pathological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester. Wilcox
50. **Pathological Problems**—49 continued. Second semester.

## CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Adjunct Professor Fossler, Mr. Frankforter, Mr. Wilson, Dr. Cutter, Miss Whaley

### GENERAL INFORMATION

Courses A, B, 1, 2, and 3, give a general knowledge of the aims, principles, and methods of the science. These courses, with 29, and four hours electives in the department, fit students to teach chemistry in high schools and thus form a major for the University Teachers' Certificate. They serve also as a foundation for a thorough and exact scientific training. In them the student is given a general survey of the field of chemistry, both inorganic and organic, including the nature of chemical processes and the use of chemical apparatus. Courses for Teachers' Certificate major may, under special circumstances and on consultation with the head of the department, be reduced to 16 or 17 hours. Courses for the 12-hour Teachers' Certificate minor are to be chosen after similar consultation.

The following sequence of courses is recommended for students in the general groups who specialize in chemistry:

First Year—Consult the head of department or associate in regard to registering for A and B, 1 and 2, or whether all four courses should be completed during the first year.

Second year—For students who have completed 1 and 2, Courses 3, 5, 7.

Third year—Courses 8, 14 or 34, 26 or 44.

Fourth year—Courses 15, 16, 21, 22, 25, 27 or 39, 40.

Courses A, B, 1, 2, 3, 5, 14, 29, 34 and 41 are primarily for undergraduates.

Courses 7, 8, 15, 16, 21, 22, 26, 27, 39, 40, 43, and 44, are for the following classes of students:

1. Undergraduates who specialize in chemistry.
2. Graduates, particularly those who select chemistry as a minor for advanced degrees.

#### GRADUATE WORK

Graduate work in Chemistry is based upon the assumption that the student has had Courses A, B, 1, 2, 3, 25, and 26 or their equivalents. Courses 5, 7, and 8, are regarded as fundamentals and must be taken before a student may pursue chemistry as a major subject.

Students may pursue any special line of work in which they may have become interested as a result of advanced work in this or other universities. The opportunities for young men in technical work, especially assaying, railway chemical work, various manufacturing concerns, experiment station and government work are continually on the increase. Many of the latter are open to young women. The demand for good science teachers is always greater than the supply.

Several graduate assistantships (paying \$400 a year and fees) and at least one fellowship and one scholarship are given to promising applicants each year. They may be renewed for a second year. The holder is required to give about half of his time to instruction in the general courses. Application should be made to the head of the department not later than April first.

Courses for advanced degrees usually lie in experimental chemistry and chemical theory, much latitude being allowed in respect to the exact topics. The attainment of a degree depends more upon the candidate's ability to think clearly and closely than upon the accomplishment of a fixed amount of work.

**Master of Arts—Minors:** Four to six hours selected from Courses 7, 8, 15, 16, 21, 22, 26, 27, 39, 40 and 44 with consent of the head of the department. **Major:** Advanced work along one of the lines indicated by courses above named and a thesis.

**Doctor of Philosophy—Minors:** Not less than six hours class work selected by the candidate upon consultation with the head of the department. **Major:** Graduate study and the preparation of a thesis which shall mark an advance in knowledge along the line of the subject chosen. The exact time requirement cannot be given, but shall be at least the minimum required by the University for the degree. The candidate for the doctorate from this department must choose two minors from allied subjects.

### General Chemistry

\* A. **General Chemistry**—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester. Given in Summer Session, 1912.

Dales, Wilson, Whaley

\* B. **General Chemistry**—Continuation of course A. Especial attention is given to the metallic elements, the more common organic compounds and the applications of chemistry to every day life. Prerequisite: Course A. Three hours lecture. Four hours laboratory. Three hours credit. Second semester. Given in Summer Session, 1912. Dales, Wilson, Whaley

\* D. **The Non-metallic Elements**—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for course 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester.

Dales, Wilson, Whaley

[26. **History of Chemistry**—Lectures; the elaboration of an assigned topic by each student. Prerequisite: Courses 1, 2, and 3. Two hours attendance. Two hours credit. Second semester. *Given in 1911-1912 and alternate years thereafter.*

Dales]

28. **Advanced Inorganic Chemistry**—Elements discussed in order in which they occur in periodic table. Special consideration to the properties and interrelations of the groups. The rarer elements given detailed treatment. Lectures illustrated by experiments. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Three hours credit. Second semester.

Dales

\* A and B are not to be confused with courses of the same designation given prior to 1908. These courses are designed to present the subject to students in the College of Arts and Sciences. No previous training in chemistry is required. The course previously termed A is now replaced by course D, while the older B is now designated combined 1 and 2.

In general, students desiring to study chemistry, who enter the University with two points credit, should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise by the department, to register as follows: Those in the College of Arts and Sciences, in the Teachers College and in the Home Economics group in the College of Agriculture will register for Chemistry A. Students in the College of Agriculture other than those just mentioned, the College of Engineering, and the College of Medicine will register for Chemistry D.

**29. Teachers' Special Methods in Chemistry**—Discussion in detail of the methods and procedure in teaching high school chemistry. Guiding principles in the selection and use of subject-matter and laboratory exercises. Supplies, apparatus and equipment for a laboratory. Efficient laboratory service. Educational aims, and relation of class-room instruction to laboratory work. Choice of text and reference books. Prerequisite: Courses 1, 2, 3. Two hours attendance. Three hours preparation. Two hours credit. First and second semesters. Given in Summer Session, 1912.

Brownell

**30. Teachers' Laboratory Course in Chemistry**—A semester of teaching of classes in high school chemistry under closest critical supervision. Involves (a) class management, preparation for class instruction, making of lesson plans, review of examination papers, provision for desk experiments; (b) direction of the laboratory work of sections of the high school chemistry classes, with care of the laboratory and its supplies, preparation in advance for the experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. To follow or in connection with Chemistry 29. Two hours conference. Four hours laboratory. Three hours teaching. Two hours credit. First and second semester. Given in Summer Session, 1912.

Brownell

**44. Theoretical Chemistry**—Principles and theories of general chemistry. Two hours attendance. Two hours credit. Second semester. *Given in 1912-1913 and alternate years thereafter.*

Fossler

### Analytical Chemistry

**1. Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D or 2 credit points. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Borrowman, Wilson, Whaley

**2. Qualitative Analysis**—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Borrowman, Wilson, Whaley

**1 and 2 (combined), Qualitative Analysis**—Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester. Given in Summer Session, 1912.

Dales, Wilson, Whaley

**5. Qualitative Analysis**—Study of characteristic reactions for the rarer elements and their application to analytical purposes; elementary spectro-

scopic analysis; dry way reactions. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First and second semesters. Given in Summer Session, 1912.

Dales

7. **Quantitative Analysis**—Gravimetric determinations of the more important bases and acids, including complete analysis of one limestone and one alloy. Prerequisite: Courses 1 and 2. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. First and second semesters. Given in Summer Session, 1912.

Frankforter

8. **Quantitative Analysis**—7 continued. Volumetric analysis, electrolytic analysis and sanitary analysis of water. One hours attendance. Five to fourteen hours laboratory. Two to five hours credit. First and second semesters. Given in Summer Session, 1912.

Frankforter

20. **Dental Chemistry**—Chemistry and metallurgy as applied to dentistry. Two hours lecture. Four hours laboratory. Two hours credit. Second semester.

Borrowman

21. **Assaying**—Lectures, readings and laboratory work on the qualitative examinations of the common minerals and ores and the quantitative determinations of gold, silver and lead in ores and metallurgical products. Prerequisite: Courses 1 and 2. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Borrowman

22. **Assaying**—Lectures, readings and laboratory work on the quantitative analysis of ores and metallurgical products by wet methods. May be taken without having had Course 21 providing the student first takes up the qualitative work of Course 21, for which credit will be given. Prerequisite: Courses 1 and 2. Two hours attendance. Four to thirteen hours laboratory. Two to five hours credit. Second semester.

Borrowman

39. **Advanced Analytical Chemistry**—A more extended study of chemical analysis than that offered in courses 7 and 8. Laboratory practice leading to analytical research. Six to fifteen hours laboratory. Two to five hours credit. First semester.

Dales

40. **Advanced Analytical Chemistry**—39 continued. Second semester.

41. **Toxicology**—Poisons; chemical nature, antidotes, and methods for detection. Prerequisite: Courses 1, 2, 3, and 34. Two hours lecture. One hour quiz. Three hours laboratory. Two hours credit. First semester.

Cutter

### Organic and Physiological Chemistry

3. **General Organic Chemistry**—The important classes of organic compounds of the aliphatic and benzene series. Derivatives. Preparation of

typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester. Fossler

15. **Organic Chemistry**—For students who desire a more extended knowledge of organic chemistry than that offered in course 3, or who wish to specialize. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Fossler

16. **Advanced Organic Chemistry**—15 continued. Second semester.

34. **Physiological Chemistry**—Organic compounds and chemical processes of physiological importance, including a study of the chemistry of the urine. Useful in subsequent study of practical medicine. Prerequisite: Courses 1, 2 and 3. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. Second semester. Cutter

14. **Food and Sanitary Chemistry**—Chemical processes of nutrition; evaluation of foods, preservatives, cleansing agents, etc., with a practical laboratory course in food and water analysis, including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2, and 3. Five hours lecture with demonstrations. Eight hours laboratory. Five hours credit. Second semester. Fossler

43. **Nitrogen Chemistry**—An elective course of one hour lecture a week on the evolution of compounds of nitrogen, their properties, and products of dissociation. Prerequisite: General inorganic and organic chemistry. One hour credit. First semester. Fossler

### Physical Chemistry

25. **Physical Chemistry**—Elementary course, the general principles of physical chemistry with applications to chemistry and to other sciences; designed for students in the Arts and Sciences and Medical Colleges. Prerequisite: Courses 1, 2, and 3. Two hours lecture. Two hours credit. First semester. Dales

27. **Physical Chemistry**—Laboratory course. Methods of most general application to chemistry. May be taken with or after course 25. Six hours laboratory. Two hours credit. First semester. Dales

### Technical Chemistry

23. **Engineering Chemistry**—Lectures and readings on the sources, manufacture, composition (with special reference to efficiency) and behavior under various conditions, of the materials of engineering—iron and steel and other metallic materials, wood, stone, clay, mortars, and cements, fuels, water, lubricants, paints and varnishes, etc., with a laboratory course

in the analysis of the same. Required of all engineers. Prerequisite: Courses 1 and 2. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters.

Borrowman

23a. **Engineering Chemistry**--A laboratory course for engineers and others who wish to do more than is required in Course 23. May be taken with or after Course 23. Students may select work according to interest and needs and arrange with instructor for readings and laboratory hours. Prerequisite: Courses 1 and 2. Hours credit dependent on amount and quality of work done.

Borrowman

## EDUCATION COURSES

The courses of instruction in Education are given in the exhibit of the Teachers College. These courses are open, however, to students of the College of Arts and Sciences.

## ENGLISH LANGUAGE AND LITERATURE

Head Professor Sherman, Professor Stuff, Professor Wallace, Professor Pound

### GENERAL INFORMATION

Courses 1 and 2, dealing with elements and first principles of criticism, are introductory to all the other work of the department.

**The University Teachers' Certificate.** On account of the necessity for common preparation in Rhetoric and English Literature, a major is not open in either of these subjects singly. A major in Rhetoric and a major also in English Literature will be credited to those who secure credit for twenty-eight hours in the courses following:

Rhetoric—Courses 3 and 4, four hours; 7 and 8, six hours.

English Literature—Courses 1 and 2, six hours; 11 and 12, four hours; 17 and 18, eight hours.

It is necessary for students offering the majors in English Literature and in Rhetoric to include a minor of twelve hours in some allied subject.

Candidates offering English Literature as a major for the degree of Master of Arts must have completed as undergraduates at least courses 1, 2, 5, 6, 11 and 12, and must include among graduate subjects courses 17, 18, 35, and 36.

### COURSES PRIMARILY FOR UNDERGRADUATES

1. **English Literature**--Introductory. Literary elements and principles,

with illustrative study of modern poetry and prose. First and second semesters. Three hours attendance. Three hours credit. Given in Summer Session, 1912.

Wallace, Stuff

2. **English Literature**—1 continued. Masterpieces in the drama, novel, short story, dramatic monologue, and selected poetry and prose. First and second semesters. Three hours attendance. Three hours credit.

Wallace, Stuff

3. **Shakespeare**—First studies in the literary art of this author. *Macbeth*, studied in daily written exercises and library readings, with independent investigation of special topics on the art and literary history of the play. Three hours attendance. Three hours credit. First semester.

Wallace

4. **Shakespeare**—3 continued. Written studies in *Hamlet* and *Othello*. Three hours attendance. Three hours credit. Second semester. Wallace

5. **The History of English Literature**—A survey of the development of English Literature; the rise of literary forms, periods of literary history, and various formative and other influences. Special class study of Chaucer Spencer, Milton, and others. Three hours attendance. Three hours credit. First semester.

Pound

6. **The History of English Literature**—5 continued. Second semester.

7. **Comparative Literature in English**—Intensive study of Job and other Hebrew literature. Comparative studies on kindred themes, from Greek, Celtic, English, Spanish, and German literature. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester.

Stuff

8. **Comparative Literature in English**—Literary art in Matthew, Mark, Luke, and John. Comparative studies from Swedish, French, Italian, English, and American literature. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. Second semester.

Stuff

9. **Nineteenth Century English Poets**—English poets from 1798 to 1900. The romantic movement of the early nineteenth century. Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Landor. The Victorian period. Tennyson, the Brownings, Clough, Arnold, Rossetti, Morris, Swinburne. Preliminary completion of courses 5 and 6, though desirable, is not essential. Two hours credit. First semester.

Pound

10. **Nineteenth Century English Poets**—9 continued. Second semester.

11. **English Literature**—Literary art and diction. Studies in the development of modern prose. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester.

Sherman

12. **English Literature**—11 continued. Daily written exercises of appreciation and criticism, in selected specimens of best literature. Two hours attendance. Two hours credit. Second semester. Sherman

14. **American Literature**—Its relation to the national life and thought. Lectures, collateral readings, and reports. Two hours credit. Second semester. Pound

COURSES FOR UNDERGRADUATES AND GRADUATES

15. **Current Comparative Literature**—Literary art of today. Comparative view of means, modes, and influences. Study of chief authors in Scandinavian, German, Russian, French, Italian, as well as English and American writers. Prerequisite: Courses 1 and 2. Class limited to twenty. Admission by conference with instructor. Acquaintance with French and German or Italian is desirable, but not essential. Two hours attendance. Three hours credit. First semester. Wallace

15a. **The Short Story**—Art of the modern short story in America, England, Russia, Germany, France, and Italy, with a survey of its evolution. Entrance by permission. Two hours attendance. Two hours credit. First semester. Wallace

15b. **The Short Story**—15a continued. Second semester.

16. **Current Comparative Literature**—15 continued. Two hours attendance. Three hours credit. Second semester.

17. **Essentials of Old English: Outline of Old English Grammar**—Reading at earliest moment of prose and poetic specimens. *Beowulf*, through 500 lines. Introductory to the history of the English language and the history of Old English literature. Four hours attendance. Four hours credit. First semester. Pound

18. **Old and Middle English and History of the English Language**—17 continued. *Beowulf* continued. The development of the language traced from Old to Modern English, the history of inflections, sound changes, spelling, etc. Outline of Middle English grammar. Reading of selected Middle English texts before Chaucer. Four hours credit. Second semester. Pound

19. **The Novel**—Its relation to the expression of life. Study of modes and art principles in the interpretation of life. Two hours attendance. Two hours credit. First semester. Stuff

20. **The Novel**—19 continued. Two hours attendance. Two hours credit. Second semester.

21. **Elizabethan-Jacobean Drama**—Shakespeare's contemporaries to the readjustment of the theaters, 1610. Reciprocal influences. Principles of the drama. Study of the play-houses. Prerequisite: Courses 1 and 2. Two hours attendance. Weekly conferences. Three hours credit. First semester.

Wallace

22. **Elizabethan-Jacobean Drama**—21 continued. Shakespeare's contemporaries and successors from 1610 to 1642. Introduction to scientific methods of investigation. Two hours attendance. Weekly conferences. Three hours credit. Second semester.

Wallace

23. **Browning**—Written studies of *Luria*, *Return of the Druses*, *Pippa Passes*. Two hours attendance. Two hours credit. First semester.

Wallace

24. **Browning**—23 continued. *The Ring and the Book*, *Sordello*. Second semester.

Wallace

25. **Shakespeare**—Advanced studies in dramatic art, as represented in *Cymbeline*, *The Winter's Tale*, *Coriolanus*. Two hours attendance. Two hours credit. First semester.

Sherman

26. **Shakespeare**—25 continued. *Romeo and Juliet*, *Twelfth Night*, *King Lear*. Two hours attendance. Two hours credit. Second semester.

Sherman

27. **English Ballads**—Introduction to the study of popular poetry. Reading of selected ballads of England and Scotland, with some references to ballads in other literatures. The ballad revival in the eighteenth century. Modern imitative ballads. One hour attendance. One hour credit. First semester.

Pound

28. **English Lyric Poetry**—Nature of the lyric. Survey of leading lyric kinds and types: ballads, sonnets, odes, elegies, etc. History of the English lyric. Two hours attendance. Two hours credit. First semester.

Pound

29. **Teachers' Course in English Language and Literature**—A practical study of the synthetic, interpretative and technical phases of presenting this subject in all primary and secondary grades. Special attention given to outlining of courses, development of material, selection of books for school libraries and home readings. Experience in the preparation and presentation of topics will be gained in connection with the Teachers College High School Practice Course in Teaching the English Language and Literature. Lectures, written reports, observation reports, criticism, library readings. Prerequisite: Courses 1, 2, 11, 12. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1912.

Sherman, Stuff

**30. Teachers' Course**—29 continued. Prerequisite: Courses 1, 2, 11, 12, 17, 29. Two hours attendance. Two hours credit. Second semester.

Sherman, Stuff

**31. Teachers' Practice Course**—Daily practice in teaching. Study of problems arising from actual conditions in the class room. One teachers' conference each week. Prerequisite: Courses 1, 2, 11, 12, 29, 30. Two hours credit. First semester. Repeated second semester.

Stuff

**33. Principles of Dramatization**—Construction in the drama of Shakespeare, Moliere, Schiller, and Goethe. Two hours attendance. Two hours credit. First semester.

Sherman

**34. Principles of Dramatization**—33 continued. Construction in the drama of Corneille, Calderon, Goldoni, Maeterlinck, Ibsen, and in the classic drama. Second semester.

Sherman

#### COURSES PRIMARILY FOR GRADUATES

**35. Advanced Old English**—Open to students who have a working knowledge of the language. The special mode of study varies according to the needs or equipment of the class. Serves often as an introduction to comparative Teutonic philology. Outline of general phonetics included if necessary. Precedent or accompanying study of Gothic and Old High German recommended. Two hours attendance. Two hours credit. First semester.

Pound

**36. Advanced Old English**—35 continued. Second semester.

**37. History of Old English Literature**—Reading of texts in translation. Study of textual and manuscript criticism, disputed readings, dates, problems of authorship and interpolation, historical and mythological elements, history of opinion, etc. One hour attendance. One hour credit. First semester.

Pound

**38. History of Old English Literature**—37 continued. Second semester.

**39. The Mediaeval Drama**—Development of the liturgical drama. Origins and growth of Mysteries, Miracles, and Moralities in England and continental Europe. Studies of text and form. Two hours attendance. Two hours credit. First semester.

Wallace

**40. Pre-Shakespearean Drama**—Development of the New English drama to Marlowe. Two hours attendance. Two hours credit. Second semester.

Wallace

**41. Seminary in English Literary Prose**—Study of development and excellencies. Two hours attendance. Two hours credit. First semester.

Sherman

42. **Chaucer**—Literary and linguistic studies. Informal lectures on contemporary fourteenth century life and literature. Two hours attendance. Two hours credit. Second semester. Pound
43. **Seminary in Criticism**—Two hours attendance. Two hours credit. First semester. Sherman
44. **Seminary in Present Literary Forms and Tendencies**—Two hours attendance. Two hours credit. Second semester. Sherman
45. **Celtic Sentiment and Thought in its Relation to English Literature**—A survey of early Irish and Welsh literature with special study of the Arthurian sources. Admission on consent of the instructor. Two hours attendance. Two hours credit. First semester. Stuff
46. **Celtic Sentiment and Thought in its Relation to English Literature**—43 continued. Celtic influence upon the English romantic movement. Two hours attendance. Two hours credit. Second semester. Stuff
47. **Seminar**—Studies in the Elizabethan drama. Investigations of special topics. Methods of scientific research. Consultations and formal reports. Admission upon approval of instructor. Two hours attendance. Two hours credit. First semester. Wallace
48. **Seminar**—47 continued. Direction of individual studies in the drama, novel, short story, or other literary form. Modern scholastic methods of research. Two hours credit. Second semester.
49. **Seminary**—In the Classical and Modern Drama. Two hours attendance. Two hours credit. First semester. Sherman
50. **Seminary**—49 continued. Second semester.

### ENTOMOLOGY

Head Professor Bruner, Associate Professor Swenk, Mr. Dawson

Courses 1 and 2 are open to all students, and they, or their equivalent, must precede all other courses in entomology except 3, 9, and 10. Courses 3 and 4 must precede courses 7 and 8. The undergraduate courses of the department are given in the general laboratory and lecture room which is located on the third floor of Nebraska Hall.

### GRADUATE WORK

A candidate for the degree of Master of Arts in entomology must have had Zoology 1 and 2, or their equivalents, in addition to Entomology 1 and 2. He should be able to read Latin and either French or German, or both.

The department has in Experiment Station Hall a laboratory fully equipped for the use of students engaged in research work along systematic lines, and a modern insectary well provided with apparatus useful in facilitating research in economic entomology, such as breeding cages, cameras, dark room and aquaria, for those investigating the life-histories of insects. The research laboratory is supplied with compound and dissecting microscopes, microscopical accessories, camera lucida, lanterns and slides and illustrative models and charts. A collection of insects numbering approximately 150,000 pinned specimens is well housed in special cabinets and Schmitt boxes and is available for study by advanced students; it is particularly rich in Hymenoptera, Diptera and Orthoptera and contains many specimens of these orders named by specialists, including a considerable number of their types. While the greater portion of the collection is representative of our state and national fauna, it is also exceedingly rich in exotic material from Argentina, Costa Rica and Mexico collected by Professor Bruner on entomological excursions to these countries. The library contains practically complete files of all the American and the principal foreign entomological periodicals as well as most of the special monographs in the various orders, and is readily accessible to advanced students, while the excellent economic libraries of the State Entomologist and Nebraska Experiment Station are close at hand and available for reference. The results of studies carried on in the department are issued consecutively in a numbered series.

**Master of Arts**—As his major for the degree of Master of Arts the student may choose either courses 15 or 16 or 17 and 18. He may elect his first and second minors from the other courses offered as graduate studies in this department or from the courses offered as graduate studies in the department of zoology. The graduate work of this department is of so technical a nature, being chiefly designed to prepare students as government, state or experiment station investigators in entomology or as museum scientists, that each student should consult with the head of the department before registering.

COURSES PRIMARILY FOR UNDERGRADUATES

**1. General Entomology**—A general survey of the class Insecta, with introductory lectures on arthropod structure, physiology, transformations, distribution and behavior, followed by a consideration of the characteristics of the orders, suborders and principal families of insects, and the life histories and habits of typical species. Laboratory dissections of typical forms of the various orders, correlated with the lectures. Three hours attendance. Six hours laboratory and preparation. Three hours credit. First semester.

Bruner, Dawson

**2. General Entomology**—1 continued. In addition, general work in the collection and classification of insects, and the study of microscopical forms. Three hours attendance. Six hours laboratory and preparation. Three hours credit. Second semester. Bruner, Dawson

**3. Economic Entomology**—An introduction to the practical phases of entomology, presenting the broad principles of insect damage and control. Types of insect injury; beneficial insects; parasitism; gall formation; fungous and bacterial diseases of insects; climatic influences on insect control; cultural preventives and artificial remedies in fighting insect pests. Assigned readings and laboratory work in rearing insects and following out life-histories in the insectary, designed principally to give the student a general view of insect metamorphosis and of insectary methods and the use of apparatus. This course and the following one are especially adapted to the requirements of students in the agricultural group electing entomology as an agricultural subject. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Bruner

**4. Economic Entomology**—3 continued. Detailed studies of our most conspicuous insect pests, concerning their life-histories and habits, and preventives and remedies for them, and in the spring observations of their work in the field. Does not presuppose course 3, although it is recommended that students elect that course immediately preceding this one. Two hours attendance. Four hours laboratory and field work. Two hours credit. Second semester.

Bruner

## COURSES FOR GRADUATES AND UNDERGRADUATES

**5. Systematic Entomology**—A study of the principles and machinery of classification as applied to insects. Taxonomic groups; evaluation of characters; evolution of organs; dimorphism; nomenclatural codes; synonymy; types; methods of description; construction of tables; use of reference books; faunal areas; ecological methods. Laboratory work with various insect groups, designed to give a conception of the varying value of classificatory characters. Two hours attendance. Seven or more hours laboratory. Three or more hours credit. First semester. Swenk

**6. Systematic Entomology**—5 continued. In addition, a detailed study of entomological technique involving the methods of collecting, preparing and preserving entomological specimens for the cabinet and museum; entomotaxy; use of entomological apparatus; entomography; entomological literature and methods of publication; bibliography, index and catalogue compilation. Two hours attendance. Seven or more hours laboratory or field work. Three or more hours credit. Second semester. Swenk

**7. Advanced Economic Entomology**—A review of the groups of insects injurious to any host plant or group of plants, including the insect enemies of corn, the small grains, alfalfa and clover, grasses, potato, sugar beet, garden vegetables, apple, stone fruits, grape and bush fruits. Assigned and original laboratory work on life-histories and actual field work in investigating insect pests. Two hours attendance. Ten or more hours laboratory. Four or more hours credit. First semester. Bruner, Swenk

**8. Advanced Economic Entomology**—7 continued. In addition, a consideration of the principal insect enemies of domestic animals and stored vegetable and animal products, the preparation and use of insecticides and methods of spraying and fumigation; nursery inspection; determination of injurious scale insects; entomological office methods; insect photography. Two hours attendance. Ten or more hours laboratory. Four or more hours credit. Second semester. Bruner, Swenk

**9. Apiculture**—A general survey of the subject, including a discussion of the structure, life-history, varieties and communal life of the honey bee; methods of handling bees, formation of colonies, enlarging brood nests, controlling the colony growth, rearing of queens, honey and wax production, honey-producing plants, apiary paraphernalia and the symptoms, etiology and control of bee diseases and other enemies of bees. One hour attendance. Two hours laboratory and reading. One hour credit. First semester. Bruner

**10. Domestic Entomology**—A series of lectures on insects affecting the household, with suggestions for their control. House ants, cockroaches, termites, silver fish, clothes moths, carpet beetles, skippers, flour beetles and meal worms, lice, fleas, house flies, mosquitoes, etc. One hour attendance. Two hours laboratory and reading. One hour credit. Second semester. Swenk

**11. Forest Entomology**—Lectures and laboratory studies on the insects of the forest. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Bruner

**12. Historical Entomology**—An outline of the history of entomology, particularly the development of economic entomology from the earliest efforts down to the work of Riley and the advent of the new school of entomologists. One hour attendance. Two hours assigned readings. One hour credit. Second semester. Swenk

**13. Medical Entomology**—A study of insects in their relation to the transmission of certain human diseases and of their capacity as human parasites. One hour attendance. Two or more hours laboratory. One or more hours credit. Second semester. Bruner

**14. Seminary**—The seminary work of the department is carried on by the Nebraska Entomological Society, an association of students specializing in entomology and taking advanced or graduate courses, meeting one evening of each month for the presentation of papers and the discussion of current progress in entomological science. Time spent in the preparation of papers and attending meetings may be applied as laboratory work.

#### COURSES PRIMARILY FOR GRADUATES

(These courses may be registered for repeatedly until the completion of the problem.)

**15. Research in Systematic Entomology**—Independent studies under the advice of the head of the department leading to the monographing of some genus, subfamily or family of insects or the detailed study of the insect fauna of Nebraska in one of the larger groups. First semester.

Bruner

**16. Research in Systematic Entomology**—15 continued. Second semester.

**17. Research in Economic Entomology**—Individual investigation of some special problem in economic entomology, usually the monographing of a species or group of species of economic importance. First semester.

Bruner

**18. Research in Economic Entomology**—17 continued. Second semester.

#### EUROPEAN HISTORY

Head Professor Fling, Adjunct Professor Pfeiffer, Miss Needham

##### GENERAL INFORMATION

The undergraduate courses in European history are intended for the following classes of students:

1. Those who are preparing to teach history in the high school or in the college. Courses 1 and 2 should be taken the first year; courses 5 and 6 with 3 and 4, or 17 and 18, or 19 and 20 the second year; 47 and 48, or 17 and 18, or 19 and 20, the third year. This is the minimum requirement in European History for the University Teachers' Certificate. Students are strongly urged to elect in addition in the senior year, a seminary and the Teachers' Course (45 and 46, or 47 and 48). The languages needed in the advanced work, especially French, should be taken up in the first and second years. Students are advised to consult with the head of the department (during registration week) concerning their work.

2. Those who are specializing in language and literature. Courses 3 and

4 are intended for students of English literature, 7 and 8 for students of German literature, and may be taken by those who have not had courses 1 and 2.

3. Those who are preparing for law or debate will find especially valuable the training in the use of evidence given in courses 1 and 2. The same courses are helpful to students of economics and sociology.

#### GRADUATE WORK

The department offers excellent opportunities for graduate study on the French revolution and the Napoleonic era. The collection of sources and secondary works upon the early revolution is the best in the west and one of the best in the country. On the Napoleonic era the department has recently acquired the valuable Oncken collection of manuscripts, containing the correspondence of the most distinguished English diplomats during the years 1812-1815 inclusive. Each year special courses and seminaries are offered on these two periods. In the seminaries, the student is introduced in a critical way to the best sources and investigations are begun that may lay the foundation for research work abroad. To take advantage of these courses, the student should have had general courses on the French revolution and the Napoleonic era, some undergraduate training in the use of sources, and should have acquired a reading knowledge of French. With such a preparation, it is possible to take the master's degree in one year. When the student is not properly prepared, the training may be secured in the undergraduate courses offered by the department. This preparatory work may be done in one year, if the student has already acquired in undergraduate courses a fair working knowledge of European history.

Master of Arts—Second Minor: At least eight hours of graduate work; two years of undergraduate work are required before graduate work can be entered upon. First Minor: Same as 1, 2, 3, and 4 for major. Major: (1) an acquaintance with the history of Europe from the beginning of Greek history to the last quarter of the nineteenth century; (2) a knowledge of the literature of European history, consisting of the best known sources in English, French and German, and the most important works of secondary writers; (3) an acquaintance with bibliographical aids and historical atlases; (4) a theoretical knowledge of the methods of historical research; (5) a thesis based on the sources.

#### COURSES PRIMARILY FOR UNDERGRADUATES

1. **European History from the Germanic Migrations to 1871**—Required for the University Teachers' Certificate in History. Three hours attendance. Three hours credit. First semester. Fling, Pfeiffer, Needham

2. **European History**—1 continued. Second semester.
3. **English History to 1558**—Required for the University Teachers' Certificate in History. Two or three hours attendance. Two or three hours credit. First semester. Pfeiffer
4. **English History after 1558**—3 continued. Second semester.
5. **The Struggle between the Empire and the Papacy**—Prerequisite: Courses 1 and 2. Required for the University Teachers' Certificate. Three hours attendance. Three hours credit. First semester. Pfeiffer
6. **The Crusades**—Required for the University Teachers' Certificate. Three hours attendance. Three hours credit. Second semester. Pfeiffer
7. **German History to 1618**—For students who are preparing to teach German and have had two years of German. Three hours attendance. Three hours credit. First semester. Needham
8. **German History after 1618**—7 continued. Second semester.
45. **Teachers' Course in Greek History**—Must be preceded by 1 and 2. Two hours attendance. Two hours credit. First semester. Fling
46. **Teachers' Course in Greek History**—45 continued. Second semester.

## COURSES FOR UNDERGRADUATES AND GRADUATES

17. **The French Revolution**—Open to students who have had one year's work in the department. Two hours attendance. Two hours credit. First semester. Fling
18. **The Napoleonic Era**—The requirements are the same as for course 17. Two hours attendance. Two hours credit. Second semester. Fling
- [19. **Europe in the Nineteenth Century**—The requirements are the same as for course 17. Two hours attendance. Two hours credit. First semester. *Given in 1913-1914.* Fling]
20. [**Europe in the Nineteenth Century**—19 continued. Second semester. *Given in 1913-1914.]*
23. **Seminary on the French Revolution**—One hour attendance. One hour credit. First semester. Fling
24. **Seminary on the French Revolution**—23 continued. Second semester.
59. **Seminary on Napoleonic Period**—One hour attendance. One hour credit. First semester. Needham
60. **Seminary on Napoleonic Period**—59 continued. Second semester.

## COURSES PRIMARILY FOR GRADUATES

25. **Historical Method**—Detailed lectures on the problems of historical

research and construction, accompanied by readings in the best English, French, and German monographs and by practical exercises. One hour attendance. One hour credit. First semester. Fling

26. **Historical Method**—25 continued. Second semester.

49. **Seminary on French Revolution**—One hour attendance. One hour credit. First semester. Fling

50. **Seminary on French Revolution**—49 continued. Second semester.

57. **The Unification of France**—One hour attendance. One hour credit. First semester. Fling

58. **The Unification of France** (July, 1789-July, 1790).—One hour attendance. One hour credit. Second semester. Fling

## FRENCH

(See Romance Languages)

## GEOGRAPHY AND ECONOMIC GEOLOGY

### Conservation and Soil Survey

Head Professor Condra, Professor Brownell, Associated Professor Loveland,  
Assistant Professor Bengtson, Miss Griffith

Courses 1, 2, and 28 are required in Forestry and Agriculture. The industrial courses 5 and 6 are open to all students. They are introductory to and correlate closely with courses 3 and 4 in the department of Political Economy. Field courses are planned separately for men and women. Economic Geology 25 is designed for engineering students. Students preparing to teach Geography should consult with the head of the department concerning the choice and sequence of courses. The election for majors and minors will vary with the individual needs of the student.

By co-operation with other departments this department is able to offer preparation for work in Soil Survey and Real Estate. Certain courses may be grouped after the general requirements of the College of Arts and Sciences are met, affording specialization along the above lines during the sophomore, junior and senior years. Students wishing to take advantage of this training should elect their Major in the department of Geography, and on first consultation with the departmental adviser should indicate which one of the vocational lines he intends to follow. With approved substitutions and electives students can prepare appropriately in the Civil Engineering group, for work in soil surveys and geological engineering. The electives and substitutions are to be recommended by the Professors of

Civil Engineering and Economic Geology, and approved by the Dean of the College of Engineering. (See note under College of Engineering.) For information concerning Mining Engineering, see Professor of Economic Geology. Graduate instruction leading to the second and third degrees is offered. Theses are based on original work done in the laboratory and field.

### Geography

#### COURSES FOR UNDERGRADUATES AND GRADUATES

1. **The Land**—An introductory lecture and laboratory course in practical physiography. Some of the topics treated are: The common minerals and rocks of the land; structures; relief features; classification and interpretation of maps; origin and detailed description of the land forms produced by wind, ground water, rivers, glaciers, earthquakes, and volcanoes. The lectures are fully illustrated by lantern slides, maps, models and specimens. Two hours attendance. Two hours laboratory and two hours library preparation. Two hours credit. Open to all. First semester.

Condra, Bengtson

2. **North America**—A summary study of the political divisions, relief, drainage slopes, coast lines, climate, evolution and structure of the continent, and a fuller treatment of each of the seventeen topographic regions; the structure, physiographic history, topography and drainage, resources and industries, and geographic control of the settlement and development of each region. (The Great Plains Region is emphasized.) Attention is given to the literature of the subject. The course is suited to all students who wish a knowledge of the geography of our country. Lectures are illustrated. Two hours attendance. Four hours library, laboratory and preparation. Two hours credit. Second semester.

Condra, Bengtson

3. **Europe and Asia**—A summary of the larger physiographic features of Eurasia, followed by a close study of the more important commercial countries, especially in their relations to the United States. Chief attention is given the geographic influences which have controlled the industrial development of the different countries. The relations of climate, structure, topography, position, and people to national progress are emphasized. Detailed studies are made of Egypt and Palestine and their relation to religious movements. A course designed to be especially helpful to students of history and those contemplating European travel. Open to all. Two hours credit. First semester.

Bengtson

4. **The Atmosphere**—A study of the meteorology and geography of the

atmosphere. The course is designed to meet the practical needs of students in agriculture and forestry. Some of the topics considered are: The physical and chemical nature of the atmosphere; distribution of heat and atmospheric pressure; wind systems; humidity and rainfall; storms; hot winds; changes and fluctuations of climate; climatology in its relation to deserts, prairie land, forests, agriculture, and the distribution of people. Students are taught the construction of weather maps and climatic charts, forecasting, and the use and care of meteorological instruments. Experiments of various kinds are performed in the wet laboratory. Two hours attendance. Four hours laboratory and preparation. Two hours credit. First and second semesters.

Loveland

**5. Industrial Geography**—This course is a close study of the mineral fuels, forest, and water resources of the United States. Detailed studies are made of the regions, processes, and products of the following industries: Coal, coke, petroleum, iron and steel, lumber, turpentine, pulpwood, rubber, coffee, and tea. Lectures are fully illustrated by slides, charts, and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. Open to all. First semester. Given in Summer Session, 1912.

Condra, Bengtson

**6. Agricultural Industries**—Practical studies are made of the following industries: Cotton, tobacco, corn, wheat, rice, beet and cane sugars, citrous fruits, apples, cattle and sheep. The processes involved in converting raw materials into the finished articles of commerce are emphasized. The forms, processes, and commercial relation are illustrated by means of specimens and well selected sets of lantern slides. This is a course in practical agricultural technology. Two hours attendance. Four hours library, museum, and preparation. Two hours credit. Second semester.

Condra, Bengtson

**7. Methods in Physical Geography**—This course deals primarily with the problem of presenting Physical Geography in the high school. Discussion of subject matter and methods of teaching. Collection and use of reference books and illustrative materials. Selection of laboratory exercises. Purpose and management of field excursions. Should be preceded by Geography 1 and 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester. Brownell, Bengtson

**8. Methods in General Geography**—A course in subject matter and methods designed to be helpful to teachers and superintendents. Some of the topics treated by class discussions and lectures are: Geography by grades in the course of study; the place of industrial and commercial geog-

rathy; equipment in the line of illustrative material and reference library; normal training geography; regional geography as illustrated by the geography of Nebraska. Visits are made to the Lincoln schools and reports upon observations of grade teaching. Should be preceded by Geography 1 and 2, or equivalent. Two hours attendance. Two hours credit. Second semester.

Bengtson, Griffith

**9. Field Geography**—For women. Excursions are made to points of geographic interest near Lincoln, Milford, Pleasant Dale, Roca, South Bend and Louisville. A study is made of rivers, flood plains, terraces, glacial deposits, rock ledges, escarpments, talus slopes, valleys, quarries, building materials, and sand dredging. Persons wishing the course should consult with one of the instructors before registering. Credit depending on time and results, usually one hour.

Griffith, Mrs. Condra

**10. Field Geography**—Course 9 continued. Second semester.

**11. Teachers' Laboratory Course in Physical Geography**—Eight hours laboratory and supervision. Two hours credit. First and second semesters.

(a) Involves working a selected list of exercises suitable for use in high schools. The teacher's problems in preparing for these exercises are studied, and some time given to discussion of suitable demonstration experiments for class use. Serves to prepare students for actual laboratory supervision. Four hours laboratory and conference. One hour credit. First and second semesters.

Bengtson

(b) Involves class management, preparation for class instruction, making of lesson plans, review of examination papers, provision for desk experiments; direction of laboratory work with sections of the Geography classes in the high school, care of the laboratory and its supplies, preparation in advance for experimental work, assistance to pupils at the tables, and review of laboratory papers handed in.

Brownell

**12. Laboratory Course in Regional Geography**—Intensive study of selected regions of the United States designed to furnish students the preparation necessary for accurate independent work. Three hours laboratory. Two hours credit. Second semester.

Bengtson

**17. Seminar**—Primarily for graduate students. Soil survey and other field work. Special research problems. Credit determined by results and time. First semester.

Condra

**18. Seminar**—Course 17 continued. Second semester.

### Field and Economic Geology

This instruction is planned for engineering and agricultural students, but may be elected by others, especially those who wish to prepare for work on geological or soil surveys.

With approved substitutions and electives students can prepare appropriately in the Civil Engineering group, for work in soil surveys and geological engineering. The electives and substitutions are to be recommended by the Professors of Civil Engineering and Economic Geology, and approved by the Dean of the College of Engineering. (See note under College of Engineering.) For information concerning Mining Engineering, see Professor of Economic Geology.

**21. Field Geology**—Open to all men students. Excursions are made to quarries, clay pits, gravel pits, sand dredges, and rock outcrops along Salt Creek, Blue River and the Platte. Use of the aneroid barometer, level, camera, and drawing materials as employed in geological and soil surveys. Interpretation of topographies and origin of different soil types emphasized. Field trips on Saturdays. One or two hours credit. First and second semesters.

Bengtson

**22. Field Geology**—Course 21 continued. First and second semesters.

**25. Engineering Geology**—The properties, origin, occurrence, and use of certain rock-forming minerals; types of structure; periods and systems; the geology of mineral fuels, water supplies, sand and gravel, building stone, cement materials, road materials, and clay. The various materials are studied in the laboratory. Examination and reports on quarries, clay pits and sand deposits; lectures illustrated by lantern, specimens and maps. Two hours attendance. Four hours library, laboratory and field. Two hours credit. First semester.

Condra, Bengtson

**28. Agricultural Geology**--A study of soil forming, road and cement-making minerals and rocks; the leading geologic structures; rock weathering and soil erosion; ground water; rural water supplies; drainage and topographic conditions of agricultural relation; evolution of farm animals as shown by fossils the structure and soil regions of Nebraska; the agricultural importance of the "Red bed," Pierre, White River, Loup Fork, glacial, loess, alluvial and dune sand formations. Two hours attendance. Four hours laboratory, field and library. Two hours credit. Second semester.

Condra, Bengtson

## GEOLOGY

Head Professor Barbour, Adjunct Professor Schramm, Miss Barbour, Miss Webster

Elementary Botany, Chemistry 1 and 2, and Zoology should precede the study of Geology. A knowledge of Greek and Latin, of French and German is of prime importance for advanced work and collateral readings. As far as possible courses are repeated each semester.

The courses in this department are wholly elective.

Courses leading to advanced degrees are arranged, on consultation, to meet the needs of candidates.

### Geology

1. **Elementary Geology**—Dynamical and Historical. Collateral readings, examination and determination of about 200 common minerals, rocks and fossils. Three hours attendance. Three hours credit. First semester.

Barbour

1a. **Elementary Geology**—1 repeated second semester. Two hours attendance. Two hours credit.

3. **Advanced Geology**—Collateral readings. Experimental and laboratory and field work. Two hours credit. First semester. Barbour

7. **Practical Course**—Teachers' course. Study of the common crystals, minerals, rocks and fossils. Lectures and field excursions. Three hours attendance. One hour credit. Second semester. Barbour

8. **Map Construction and Interpretation**—Teachers' course. Map drawing and coloring; modelling in papier mache, clay, wax and other media; making plaster and gelatine moulds; casting in plaster of Paris. Suited to various grades. One hour credit. First semester.

Barbour, Miss Barbour, Webster

### Paleontology

9. **Zoological Geology**—An elementary study and comparison of living and fossil forms. One hour attendance. Two hours laboratory. One hour credit. First semester. Barbour

10. **Zoological Geology**—9 continued. Second semester.

11. **Local Paleontology**—Fossils of the state. Designed primarily for teachers. Prerequisite: Course 9. One or two hours credit. First and second semesters. Barbour, Miss Barbour

12. **Local Paleontology**—Special problems. Designed primarily for graduate students. Credit conditioned on results. First and second semesters. Barbour

**13. Applied Geology** (Follows Geology 1)—Elementary lithology, mineralogy, paleontology, field work, map drawing, etc. Designed for students, teachers, and others wishing general information respecting common minerals, rocks, ores, fossils, field and laboratory methods, etc. One hour attendance. Two hours laboratory. One hour credit. First and second semesters.

Barbour, Webster

#### FOR SPECIAL STUDENTS

For students desiring special work as an aid to mining engineering, civil service appointment for work in geology, forestry, topography, Geology 13 may be combined with any one or more of the following courses:

**A—Elementary Mineralogy and Blowpipe Analysis**—One hour attendance, two hours laboratory, one hour credit.

**B—Elementary Paleontology**—Study of index fossils for stratigraphic determination. One hour attendance, two hours laboratory, one hour credit.

**C—Elementary Lithology**—One hour attendance, two hours laboratory, one hour credit.

**D—Elementary Crystallography**—One hour attendance, two hours laboratory, one hour credit.

**E—Elementary Field work, relief maps, etc.,** one credit hour.

#### Mineralogy and Crystallography

**15. Mineralogy**—Blow-pipe analysis of minerals. One or two hours attendance. Two to five hours laboratory. One or two hours credit. First and second semesters. To be preceded or accompanied by course 17.

Schramm

**16. Mineralogy**—15 continued. First and second semesters.

**17. Crystallography**—Crystallographic forms and measurements, mathematical relations, physical and optical properties. To precede or accompany course 15. One hour attendance. Two hours laboratory. One hour credit. First and second semesters.

Barbour, Webster

#### Lithology

**29. Elementary Lithology**—For teachers and others who wish a general knowledge of rocks. One hour attendance. Two hours laboratory. One hour credit. First semester.

Schramm

**30. Advanced Lithology**—A study of rocks and rock-forming minerals determined by means of physical, optical and chemical methods. Prerequisite: Courses 11, 13, and 17. One or two hours credit. Second semester.

Schramm

**Field Geology**

31. **Advanced Field Work**—Geologic and topographic mapping, with particular emphasis on methods employed by the United States Geological Survey, construction of relief maps from topographic maps made by the students. Finished report from field notes. One hour attendance. Two hours field and laboratory. One hour credit. First and second semesters.

Schramm

**Mining Geology**

33. A study of metalliferous deposits, the metallic and non-metallic minerals, their origin, occurrence, distribution, and economics. Two hours attendance, four hours laboratory and library. Two hours credit. First semester.

Schramm

34. A study of the mineral fuels, including coal, oil, and gas, and other hydrocarbons, their origin, mode of occurrence, distribution, and economics. Two hours attendance. Four hours laboratory and library. Two hours credit. Second semester.

Schramm

To meet demands further arrangements will be made for additional courses in Mining.

**GERMANIC LANGUAGES AND LITERATURES**

Head Professor Fossler, Professor Grumann, Assistant Professors Schrag, Heppner, Baumgartner, Adjunct Professor Alexis, Instructor Chamberlain, Fellows

## GENERAL INFORMATION

The organization of the department of Germanies, exclusive of the Scandinavian languages and literatures (for which see Calendar, p.—), provides for four more or less sharply defined lines of instruction, namely: introductory (Courses 1-4); intermediate (Courses 5-10); advanced (Courses 11-20); graduate (Courses 21-27).

Students beginning their study of German in the University with course 1, should, ordinarily, not look towards making German their major. To do so would require more time and strength than they could well spare from their college course.

Those contemplating specializing in Germanies are advised to do co-ordinate work in English, in English literature, Latin or History, more particularly modern and German history.

The requirements for the University Teachers' Certificate are as fol-

lows: Major, Courses 4, 5, 6 (or 5a), 7, 8, 19 and at least six semester hours of some advanced literary German. It is also recommended that candidates for this certificate take phonetics, Course 21. Minor, the above mentioned courses with the exception of the more advanced literature and phonetics.

A Major in the College of Arts and Sciences—not leading to the Teachers' Certificate—requires a minimum of 24 semester hours above Courses 1, 2, and 3. To insure wise and careful selection of studies students should advise with the department before registering.

#### ELEMENTARY COURSES

1. **Beginners' German**—A careful and thoro study of the fundamentals of the language: pronunciation, the inflectional systems, sentence-structure, the vocabulary of every-day life, etc. Practice in understanding and speaking German based upon easy readings. Five hours. First semester. Given in Summer Session, 1912.

Grummann, Sehrag, Heppner, Chamberlain, Baumgartner, Alexis

2. **Beginners' German**—Grammar studies continued. Application to simple modern narrative and descriptive prose, e. g., Bacon's *Im Vaterland*, Müller's *Neue Märchen*, Blüthgen's *Das Peterle von Nürnberg*, Seidel's *Leberecht Hühnchen*, Stökl's *Alle fünf*, etc. Conversation and composition exercises based upon texts read. Hours and instructors as in course 1. Second semester.

2a. **Beginners' German**—Essentially equal to the foregoing course, although, being designed to accommodate high school students who enter with but two semesters' German, the formal or systematic side of grammar (review) is stressed. Conversation and composition exercises as in course 2. Five hours. First semester. Chamberlain, —, —

3. **Second Year German**—Modern prose, such as Niese's *Aus dänischer Zeit*, Schrakamp's *Ernstes und Heiteres*, Rosegger's *Waldheimat*. Freitag's *Die Journalisten*, Gerstäcker's *Germelshausen*, Manley and Allen's *Four German Comedies*. Systematic elementary composition and conversation based upon Bernhardt's *German Exercises* and upon texts read. Five hours. First semester. Given in Summer Session, 1912.

Schrag, Baumgartner, —

4. **Second Year German**—Translation and, as far as possible, discussion in German or more advanced texts, e. g. Fulda's *Das Verlorne Paradies*. Arnold's *Aprilwetter*, Meyer-Förster's *Karl Heinrich*, Mogk's *Deutsche*

*Sitten und Gebräuche*, Sudermann's *Frau Sorge*. Students who have had four semesters German in the high school should likewise register in this course. Five hours. First and second semesters.

Grummann, Heppner, Baumgartner, Chamberlain

#### INTERMEDIATE COURSES

##### PRIMARILY FOR UNDERGRADUATES

**5. Third Year German**—Introductory literature, chiefly classical prose and verse, e. g., Lessing's *Minna von Barnhelm*, *Emilia Galotti*, Schiller's *Maria Stuart*, *Jungfrau von Orleans*, Goethe's *Egmont*, *Iphigenie*, Hatfield's Collection of *German Lyrics and Ballads*. Three hours. First semester. Given in Summer Session, 1912. Chamberlain

**6. Third Year German**—Above course continued with texts already mentioned or with Heine's *Prosa*, Schiller's *Tell*, Goethe's *Hermann und Dorothea*. Three hours. Second semester. Chamberlain

**5a. Third Year German**—A combination of courses 5 and 6. Its object is to afford an opportunity to finish the third year's work to students who complete their fourth semester German mid-year. Five hours. Second semester. Grummaun, Heppner, Baumgartner, Chamberlain

**\*7. Third and Fourth Year German**—Conversation course. The design in this and the following course is to furnish such opportunity for gaining a fairly ready and correct command of spoken German as can be done in the class room. Special attention is paid to colloquial, every-day idioms and expressions. Fossler's *Material for German Conversation*, Thiergen's *Am deutschen Herd*, Hölzel's and Hirt's *Wandbilder*, and similar helps furnish the material. Three hours. First semester. Given in Summer Session, 1912. Fossler, Schrag, Heppner, —

**\*8. Third and Fourth Year German**—Continuation of foregoing course. Free composition, close study of grammatical peculiarities. Committing of poems, proverbs, etc. Fossler, Schrag, Heppner, —

**9. Third and Fourth Year German**—Earlier Nineteenth Century Dramatists. Selected dramas of Kleist, Grillparzer, Ludwig, Hebbel. Introduction to their life, works and theory of art. Three hours. First semester. Schrag

**10. Third and Fourth Year German**—Continuation of foregoing course. Three hours. Second semester. Schrag

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\* Various university organizations such as The Verein Germania, Der deutsche gesellige Verein, and The German Dramatic Club afford further opportunities for acquiring a practical knowledge of spoken German.

## ADVANCED COURSE FOR UNDERGRADUATES AND GRADUATES

11, 12. **Fourth Year**—Advanced literature. Goethe, his life and works; (a) Pre-Weimar period; (b) Italy and post-Italian literary activity; (c) *Faust*, *Kleinere Gedichte*. The entire year is devoted to Goethe. Specially strong students are encouraged to supplement the work of the lecture room by preparing individual reports on various phases of the poet's life and art. Supplementary readings in Grimm, Bielschowsky, Meyer, Thomas, etc. Three or four hours.

Fossler

13, 14. **Fourth Year**—The Modern Novel and Drama. Representative works of Hauptmann, Sudermann, Fontane, Kretzer, Halbe, Wildenbruch, Fulda and others. Lectures, reading, and reports. Three hours. Throughout the year.

Grumann

13a. **Ibsen**—Reading and interpretation of *Puppenheim*, *Rosmersholm*, *Hedda Gabler*, *Baumeister Solnesz*, *John Gabriel Borkmann*, *Wenn wir Toten Erwachen*, together with lectures on other plays of the author. His influence on German naturalism. Two hours. First semester.

Grumann

15, 16. **History of German Literature**—From the origins to the beginning of the Nineteenth Century. Besides reading representative portions of authors or periods under consideration students are required to familiarize themselves with works of reference such as Scherer's *History of German Literature*, Franke's *Social Forces in German Literature*, Kluge's *Deutsche National-Litteratur*. Lecture, readings and reports. Three hours throughout the year.

Baumgartner

17. **Germanic Mythology**—A study of the more important Germanic myths, their origin and relation to folk lore. Two hours. First semester.

Grumann

18. **German Hero Lore**—A study of the origin and growth of the Volsunga Saga. A comparative study of Hebbel's *Die Nibelungen*, Wagner's *Der Ring des Nibelungen* and Ibsen's *Nordische Heerfahrt*. Two hours. Second semester.

Grumann

19. **The Teachers' Course**—A survey of the principles underlying the teaching of German. Lectures, assigned readings, papers and reports on topics connected with language teaching in secondary schools. Practice teaching. A careful examination of the aims and objects to be kept in view, as well as of grammars and other texts suitable for high school use. The course also includes a thorough review of the chief features of German grammar and the elements of phonetics. Reference books:

Fraser and Van Der Smissen *German Grammar*, Prokosh's *German Grammar*, Bagster-Collins' *German in Secondary Schools*; *The report of the Committee of Twelve*, Vietor's *Kleine Phonetik*, etc. Prerequisites: Courses 4, 5, 6 (or 5a), 7, 8 and some advanced literature courses. In all cases students should consult with the instructor before registering for this course. Three hours. First semester. Given in Summer Session, 1912. Fossler

20. **Advanced Conversation and Composition Course**—Continuation of 8 and 19. Paskowski's *Lesebuch*, Klug's *Themata zu deutschen Aufsätzen und Vorträgen* and material suggested in the latter work. Especially designed to supplement the work of those who intend to become teachers of German. Two hours. Second semester. Fossler

## GRADUATE WORK—MASTER OF ARTS

In order to prosecute graduate studies successfully the student should have had preliminary training in German in at least 30 semester hours above courses 1, 2, and 3. These 30 hours must represent work covered in courses 5-20.

In general, a combination of philological and literary advanced work will prove most suitable to the needs and satisfactory progress of the student. Occasionally a greater degree of specialization either in linguistics or literature may be desired and will be permitted if the student has the necessary preliminary training.

The following courses and possible variations are suggested as suitable Majors:

	FIRST SEMESTER	Hours
1. Gothic .....		3
2. Phonetics .....		1
3. History of German Literature.....		3
4. Middle High German.....		2
or		
Modern Literature (Seminar) }		2

## SECOND SEMESTER

1. Comparative Germanic Philology.....	3
2. Principles of Linguistic History.....	2
3. History of German Literature.....	3
4. Old and Middle High German.....	2
or	
4. Modern Literature }	2
5. Thesis }	

Coordinate Minors may be chosen either from the more advanced undergraduate courses in the department of German or from other departments such as Latin, the Romance Languages, English and English Literature, Philosophy. In all such cases the work elected must be regarded by the department concerned as constituting graduate or advanced undergraduate work. The total Minors for both semesters should represent from 8 to 12 semester hours, and must be chosen with the consent of this department.

## COURSES OF INSTRUCTION

21. **Phonetics**—The work is based mainly upon Sievers' *Phonetik*. One hour. First semester. Grumann
  22. **Old and Middle High German**—Selections from the older literature. Prose and verse. Two hours. Second semester. Grumann
  23. **Middle High German**—Selections from the *Nibelungenlied*, *Wolfram von Eschenbach*, *Walther von der Volgweide*, *Hartman von Aue*, etc. Transition stages between the Middle and the New High German. Two hours. First semester. Grumann
  24. **Comparative Germanic Philology**—The fundamental principles of linguistic science, with special reference to the prehistoric relationship, the historical development and differentiation of English and German. Three hours. Second semester. Fossler
  25. **Gothic**—Grammar and readings. The language with respect to its phonology, etymological connections and inflectional system; its relation to the other Germanic dialects. Three hours. First semester. Fossler
  26. **Principles of Linguistic History**—The work is based principally upon Paul's *Prinzipien*, and Behaghel, *Die deutsche Sprache*. Two hours. Second semester. Fossler
  27. **Seminary—in German Naturalism**—The influence of foreign literature and social forces upon German naturalism. Psychological criticism and its relation to earlier schools. Two hours. First semester. Grumann
- Scandinavian Languages and Literature**
- Adjunct Professor Alexis
1. **Beginning Swedish**—Elements of grammar with easy readings; sentence-structure; word-building; vocabulary. Geijerstam's *Mina pojkar*. Five hours. First semester. Alexis
  2. **Beginning Swedish**—2 continued. Mauritzon's *Rättskrivnings-*

*lära.* Modern narrative prose. Selma Lagerlöf's *Ett herrgårdssägen*. Conversational exercises. Five hours. Second semester.

**3. Advanced Swedish**—Syntax and composition. Readings: Selma Lagerlöf's *Nils Holgerssons underbara resa genom Sverige*. Runeberg's *Fänrik Ståls Sägner*, etc. Three hours. First semester. Alexis

**4. Advanced Swedish**—3 continued. Lectures on early Scandinavian culture. The later Swedish literature. Selections from Tegnér: e. g., *Frithiofs saga*, *Runeberg's Skrifter*, etc. Three hours. Second semester.

**5. Dano-Norwegian**—Principles of grammar; pronunciation; reading of narrative prose. Björnson's *Syntaive Solbakken*. Three hours. First semester. Alexis

**6. Ibsen: Brand, and Peer Gynt or some of the Social Dramas**—Class reading and interpretation. Two hours. Second semester.

## GREEK HISTORY AND LITERATURE

Head Professor Lees, Professor Dann

Candidates for the University Teachers' Certificate in this department should complete courses for a major: 1, 2, 3, 4, 5, 8, or their equivalent. One or two years of the Greek language will be found very helpful and quite essential to a thorough mastery of the Latin Language.

### GRADUATE WORK

**Master of Arts**—Requirements vary somewhat according to the preceding work of the student, but at least three years of study in the Greek language, including courses 1, 2, 3, 4, 5, 8, or their equivalents, should be completed before proceeding to graduate work. Majors and minors are arranged with each graduate student on consultation with the instructors. The following statements may indicate in general the requirements for majors and minors:—**Major:** At least five hours for a year of class-room work; the entire Iliad or Odyssey read in the original; one Attic author carefully read and style mastered; a thorough knowledge of the history and development of Greek literature from Homer to Aristotle; a thesis. **First Minor:** Six hours, at least, of class-room work from courses open to graduate students, supplemented by assigned library readings. **Second Minor:** One-half the amount required for a first minor.

### Greek Language

COURSES PRIMARILY FOR UNDERGRADUATES

**1. Elementary Greek**—Essential facts of the language; simple exercises

and easy readings. This course, together with course 2, makes it possible for strong students to take third year Greek (Course 5), after one year's preparation. Five hours attendance. Five hours credit. First semester.

Lees

2. **Elementary Greek**—Course 1 continued. Xenophon's Cyropaedia. Simple composition exercises. (See Course 1.) Five hours attendance. Five hours credit. Second semester.

Lees

2b. **The Greek in English**—A study of English words derived from the Greek language. Aims to give such mastery of elementary Greek that the student is able to read Xenophon's Anabasis (Course 3) the following semester. Five hours attendance. Five hours credit. Second semester.

Lees

3. **Xenophon's Anabasis**—Selections from Books I-IV, with prose composition. Parallel and supplementary readings from standard histories of Greece. Three hours attendance. Three hours credit. First semester.

Dann

4. **The Iliad**—Books I, II, and VI. Introduction to the Epic dialect and the Homeric hexameter; practice in metrical reading. Three hours attendance. Three hours credit. Second semester.

Dann

5. **The Odyssey**—Three books read consecutively; sight reading from selected passages of the first twelve books. Literary study of the whole poem from the English translation. Three hours attendance. Three hours credit. First semester. Prerequisite: Courses 1 and 2 or 2b, 3 and 4.

Lees

8. **Plato**—The Apology and Crito. Socrates and his teachings. Three hours attendance. Three hours credit. Second semester.

Lees

#### FOR UNDERGRADUATES AND GRADUATES

9. **The Greek Drama—Aeschylus**—The Prometheus Bound, and one other drama in the original. A discussion of the works and literary characteristics of Aeschylus. Three hours attendance. Three hours credit. First semester.

Lees

10. **Sophocles**—The Antigone, and one other drama read in the original. Other works of Sophocles in translations. Greek actors, costumes, and theatre. Three hours attendance. Three hours credit. Second semester.

Lees

11. **Euripides**—Two dramas read in the original. Other selected

dramas of Euripides read in translations. Styles and literary characteristics of Euripides. Two hours attendance. Two hours credit. First semester. *Given in 1913-1914.* Lees]

12. **Aristophanes**—The Clouds and Frogs. Rise and development of Athenian comedy. Its relation to Roman and later comedy. Two hours attendance. Two hours credit. Second semester. Lees

[13. **The Greek Historians**—Selected chapters from the works of Herodotus, Thucydides, and Xenophon. Two hours attendance. Two hours credit. First semester. *Given in 1913-1914.* Lees]

14. **The Greek Orators**—Selected orations of Lysias and Demosthenes. Two hours attendance. Two hours credit. First semester. Lees

15. **Greek Philosophy**—The Phaedo of Plato. A survey of Greek Philosophy. Two hours attendance. Two hours credit. Second semester. Lees

[16. **Lucian**—Selected dialogues. An outline history of Greek Literature from Homer to the second century A. D. Two hours attendance. Two hours credit. Second semester. *Given in 1913-1914.* Lees]

17. **Prose Composition** (Teachers' Course in Greek Language)—Advanced course. Especially for students expecting to teach. One hour attendance. One hour credit. First semester. Dann

18. **Prose Composition**—17 continued. Second semester.

19. **New Testament Greek**—Selection from the Gospels. Two hours attendance. Two hours credit. First semester. Lees

20. **New Testament Greek**—19 continued. Pauline Epistles. Second semester.

### **Greek History and Archaeology**

No knowledge of Greek is required in order to pursue successfully the following courses. They are open to all students in any department of the University.

31. **Greek Mythology and Folk-Lore**—Origin and significance of Greek myths, and their treatment in sculpture and painting. Two hours attendance. Two hours credit. First semester. Dann

32. **Greek History and Geography**—General survey of Greek history from the sixth century B. C. to the conquests of Alexander. Two hours attendance. Two hours credit. Second semester. Dann

**33. The History of Greek Literature from Homer to Aristotle—** Selected masterpieces of Greek literature in English translation. Lectures and library readings on the authors studied. Two hours attendance. Two hours credit. First semester. Lees

**34. The History of Greek Literature from Homer to Aristotle—** 33 continued. Second semester. Course 33 is not a prerequisite. Lees

**36. Greek Archaeology and Antiquities—** Topography, architecture, theatres, temples, social customs, funeral monuments. An itinerary through Greece with lectures and illustrations from photographs and lantern slides. One hour attendance. One hour credit. Second semester.

Lees

(For **Sanskrit and Comparative Philology**, see Sanskrit.)

### The Fine Arts

In the following courses in the history and criticism of art are considered, in addition to biographical and historical studies, the fundamental principles of aesthetic criticism; the form and spirit of art in relation to nature, to science, and to life; the conventions of architecture, sculpture, and painting. The courses consist of lectures and discussions in class readings, and preparation of papers on assigned topics.

**40. The Interpretation of Art—** This course is intended to help students to a sound criticism and appreciation of works of art. It aims to cultivate the aesthetic sense by discussion of the principles and qualities of art and by practice in interpreting pictures, sculpture, architecture and decorative designs. Examples are taken from various periods and schools of art. Two hours attendance. Two hours credit. First and second semesters. Given in Summer Session, 1912. Dann

**41. History of Italian Art—** Paintings and sculpture, from the earliest times to the Renaissance. Three hours attendance. Three hours credit. First semester. Dann

**42. History of Italian Art—** 41 continued. The times of Leonardo da Vinci, Michelangelo, Raphael, and their successors. Three hours attendance. Three hours credit. Second semester. Dann

**43. Representative Painters of the Dutch and Flemish Schools—** Studies in portrait and landscape painting. Three hours attendance. Three hours credit. First semester. Dann

**44. Modern Painting—** A study of the art of the nineteenth century in France, England and America. Two or three hours attendance. Two or three hours credit. Second semester. Dann

**45. Cathedral Architecture**—A study of typical and famous churches in Italy, France, Germany, and England. The principles of architectural construction and decoration are considered, as well as the original and the developed early Christian, Romanesque, and Gothic styles. Two hours attendance. Two hours credit. First semester. Dann

**46. Modern Architecture**—The architecture of the Renaissance is taken up and discussed, including the points wherein it resembles or differs from classic architecture. The study and criticism of modern buildings of architectural pretensions, and some consideration of the problems and conditions of modern architecture. Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1912. Dann

## HISTOLOGY AND EMBRYOLOGY

Professor Willard, Mr. Wells

These courses take up vertebrate structure and development from the comparative standpoint and are therefore illustrative throughout of the structural responses to the general factors of evolution. Course 1 is especially adapted to bring out biological facts of wide application and may be profitably taken by students with only a general biological preparation. Courses 11 and 12 may be adapted to the needs of the general science teacher as an aid to his preparation in physiology. Course 14 will in like manner be adapted to the student of psychology who desires a broader basis on which to place the study of human brain structure.

All courses require the equivalent of the general courses in Zoology and for course 14 comparative vertebrate anatomy and vertebrate embryology are advised.

All the courses offered in this department are of the nature of advanced courses in the field of the biological sciences and may be taken by graduate students who are candidates for higher degrees.

## COURSES FOR GRADUATES AND UNDERGRADUATES

**1. General Vertebrate Embryology**—Lectures with text-book for collateral reading covering the field of vertebrate embryology. The laboratory work consists of the study of individual series of chick and pig with additional demonstrations from the shark and frog embryos. With some additional expenditure of time the student may do more of the preparation himself and retain in his possession complete sets of the embryos studied. Two hours attendance. Four or eight hours laboratory. Three or four hours credit. First semester. (If taken with course 11, eight hours laboratory first half first semester, four hours credit.) Willard, Wells

**2. Special Vertebrate Embryology**—For those who desire to carry the study of course 1 into some special field or extend it to the later stages of development, this course will be arranged for individually and may be taken as a two-hour course or more according to time given it. It offers the necessary preparation for research work in embryology. Willard

**4. Comparative Vertebrate Anatomy**—(Those desiring this course should register for Zoology 6, under which name the course is properly listed. A course providing a broad comparative basis for any subsequent work in embryology, microscopical or gross anatomy. In a knowledge of their evolution the student has an explanation for the distinctive structures of the human body. The adaptation of structure to function, the significance of rudimentary organs and the parallel between evolution and individual development, are fully demonstrated in laboratory study. A cartilaginous fish, an amphibian and a mammal together with prepared dissections from other forms represent the material used. Anatomical technic is demonstrated to a certain extent in the methods of preservation, injection of blood vessels and the mounting of permanent dissections. A general course in Zoology is a prerequisite. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Willard and Assistants

**11. General Histology**—This course introduces the subject of the finer cell structure of organs through a study of primary tissues. This is approached from the embryological side so the student sees the process as well as the results of differentiation, giving the subject a broader significance. Arranged to follow a two-hour course in embryology. Two hours attendance. Eight hours laboratory. Second half of first semester. Two hours credit. Willard, Wells

**11a. General and Dental Histology**—A course arranged for dental students to cover the histology of tissues and the special histology and embryology of the teeth. Open only to dental students and not accepted as a substitute for any other course. Eight hours laboratory, quiz and recitation. First semester. Willard, Harvey

**12. Organology**—The finer structure of the organs of the vertebrate body. The cell structure, blood and nerve supply and functional changes, as far as expressed structurally, are studied by means of microscope mounts. Three hours attendance. Four hours laboratory. Three hours credit. Second semester. (This course must be preceded by course 11.) Willard, Wells

**14. Vertebrate Nervous System**—Structural evolution of the vertebrate brain, illustrated by dissections and sections. The object is to point out the modifications presented by the brains in the groups of vertebrates in connection with certain biological factors, such as the rise or disappearance of sense organs explaining such changes. A general course in Zoology is a prerequisite and a course in Vertebrate Anatomy is strongly recommended. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Willard

## HISTORY

(See American History and European History)

## JURISPRUDENCE AND PUBLIC LAW

Professor Hastings, Professor Maxey

### GRADUATE WORK

**Master of Arts**—Complete courses, or major or minor courses, are arranged upon application.

**Master of Laws**—A candidate for the degree of Master of Laws must have received the degree of Bachelor of Laws from this University or from some approved law school, must complete an additional year's work of at least 16 hours a week in the College of Law or the Graduate College or both, and must present a suitable thesis embodying the result of original investigation and research. Before such student shall be entitled to the degree he must complete all the courses, elective as well as required, offered in the College of Law for the degree of Bachelor of Laws.

### Jurisprudence

**1. History and System of the Common Law**—General survey of the legal system of English-speaking countries; courts, their organization and jurisdiction. Students taking this course should have had English History. Credited in the College of Law. Two hours attendance. Two hours credit. First semester.

Hastings

[**2. Roman Law**—History and Institutes. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. *Given in 1911-1912 and alternate years.* Maxey]

**3. Analytical and Historical Jurisprudence**—Introduction to legal theory. Credited in the College of Law. Three hours attendance. Three hours credit. Second semester.

Maxey

### Public Law and Diplomacy

1. **American Constitutional Law**—Cases on constitutional law. Credited in the College of Law. Three hours attendance. Three hours credit. First semester. Students taking this course should have had American History. Hastings
2. **American Constitutional Law**—1 continued. Cases on constitutional law. Prerequisite: Course 1. Credited in the College of Law. Three hours attendance. Three hours credit. Second semester. Hastings
3. **American Administrative Law I**—Law of public officers; extraordinary legal remedies. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. Maxey
4. **American Administrative Law II**—3 continued. Taxation. Credited in the College of Law. Two hours attendance. Two hours credit. Second semester. Maxey
6. **International Law I**—Credited in the College of Law. Three hours attendance. Three hours credit. First semester. Maxey
7. **International Law II**—Advanced course. Specific problems of international law. Two hours attendance. Credited in the College of Law to students who do not count International Law I. Two hours credit. Second semester. Maxey
- [8. **European Diplomacy**—Two hours attendance. Two hours credit. First semester. *Given in 1911-1912 and alternate years.* Maxey]
9. **Comparative Constitutional and Administrative Law**—Comparative study of public law of the United States, England, Canada, and Australia. Two hours attendance. Two hours credit. First semester. *Given in 1912-1913 and alternate years.* Maxey
10. **American Diplomacy**—Organization. Main diplomatic controversies. Two hours attendance. Two hours credit. First semester. Maxey
11. **Seminary on Consular Service**—Admission upon consent of the instructor. Two hours attendance. Two hours credit. Second semester. *Given in 1912-1913 and alternate years.* Maxey

### MATHEMATICS

Head Professor Davis, Professor Candy, Professor Engberg, Associate Professor Brenke, Mr. Johnson, Miss Runge,  
 Miss Bennett, Mr. Lefschetz

#### GRADUATE WORK

The candidate for an advanced degree, whether mathematics be a major or a minor, must have completed mathematics 1, 2, 3, 4, and 7.

## MASTER OF ARTS

**Second Minor:** Differential Equations, Advanced Analytic Geometry, courses 5, 6, 22, and 23.

**First Minor:** In addition to the above, courses 9, 9a, 20, and 21.

**Major:** The additional requirements are: (1) Selections, approved by the head of the department, from such courses in advanced mathematics, mathematical physics, astronomy or engineering as are offered during the student's residence; (2) a thesis.

## DOCTOR OF PHILOSOPHY

The candidate must have not only an extended general knowledge of mathematics on the basis of the requirements for the degree of Master of Arts, but must also devote special attention to some line of modern research, consulting both standard treatises and the various mathematical journals. The results of this work are to be presented and discussed from time to time in the mathematical seminary and finally embodied in a thesis.

## LIBRARY FACILITIES

The department has a carefully selected library to which additions are constantly made. Leading current periodicals are kept on file, and of these there are several complete sets.

**Seminary:** The instructors and advanced students meet the first and third Wednesday of each month, 4:30 to 6:00 p. m., for the discussion of current literature, the presentation of the results of investigations, and the solutions of assigned problems. Open to all students who have had one year of mathematics and who are recommended by their instructors.

Requirements for the University Teachers' Certificate—Major (25 hours), courses 1, 2, 3, 4, 8, 9, 9a; minor (12 hours), courses 1, 2, 8, and, if possible, 9 and 9a. It is very desirable that prospective teachers of Mathematics should add all or part of courses 5, 7, 20. They will thus get ideas that will vivify their teaching. It is also desirable that Physics should accompany Mathematics even if to do so the amount of Mathematics taken be diminished. Three points entrance credit in Algebra and three points in Geometry are necessary to enter course 1.

## COURSES

**A. Solid Geometry**—Prerequisite: Five points high school credit. Five hours attendance. Five hours credit. First semester.

**1. Algebra and Plane Trigonometry**—Prerequisite: Six points high school credit. Five hours attendance. Five hours credit. First and second semesters. Candy, Brenke, Johnson, Runge, Bennett, Lefschetz

**2. Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

Candy, Brenke, Johnson, Runge, Bennett, Lefschetz

**3. Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

Candy, Brenke, Johnson, Runge

**4. Calculus**—3 continued. Five hours attendance. Five hours credit. First and second semesters.

Davis, Candy, Engberg, Brenke

**4a. Calculus**—4 continued. Two hours attendance. Two hours credit. Second semester.

Davis

**5. Differential Equations**—Prerequisite: Course 4. Three hours attendance. Three hours credit. First semester.

Candy

**6. Differential Equations**—5 continued. Second semester.

**7. Theory of Probability**—Three hours attendance. Three hours credit. Second semester.

Engberg

**8. College Algebra**—Primarily for those intending to teach mathematics. Two hours attendance. Two hours credit. Second semester.

Engberg

**9. History of Mathematics**—Two hours attendance. Two hours credit. Second semester.

Candy

**9a. Mathematical Pedagogy**—The application of the principles of teaching Mathematics in actual class work in the Teachers College Training School. One hour credit. First and second semesters.

Hill

**10. Advanced Algebra**—Three hours attendance. Three hours credit. First semester.

Engberg

**11. Advanced Algebra**—10 continued. Second semester.

**12. Theory of Functions**—Three hours attendance. Three hours credit. First semester.

Brenke

**13. Theory of Functions**—12 continued. Second semester.

**14. Elliptic Functions**—Three hours attendance. Three hours credit. First semester.

Davis

**15. Elliptic Functions**—14 continued. Second semester.

**16. Harmonic Analysis**—Applied to the Partial Differential Equations of Mathematical Physics. Source of these equations. Methods of solution. Theory of Fourier's series. Other series of normal functions. Solutions in series of cylindrical, zonal, spherical and ellipsoidal harmonics. Three hours attendance. Three hours credit. First semester.

Brenke

17. **Harmonic Analysis**—16 continued. Second semester.
18. **Mathematical Logic**—Three hours attendance. Three hours credit. First semester. Davis
19. **Point Sets**—Three hours attendance. Three hours credit. Second semester. Davis
20. **Geometry of Position**—Three hours attendance. Three hours credit. First semester. Johnson
21. **Geometry of Position**—20 continued. Second semester.
22. **Advanced Analytical Geometry**—Prerequisite: Course 5. Three hours attendance. Three hours credit. First semester. Candy
23. **Advanced Analytical Geometry**—22 continued. Second semester.
24. **Modern Geometry**—Two hours attendance. Two hours credit. First semester. Engberg
25. **Modern Geometry**—24 continued. Second semester.
26. **Imaginaries in Geometry**—Two hours attendance. Two hours credit. First semester. Davis
27. **Imaginaries in Geometry**—26 continued. Second semester.
28. **Differential Geometry**—Two hours attendance. Two hours credit. First semester. Davis
29. **Differential Geometry**—28 continued. Second semester.
30. **Vector Analysis**—Three hours attendance. Three hours credit. First semester. Davis
31. **Statistics**—Statistical problems. Interpretation of statistics. This course should be taken in connection with Political Economy 27. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. First semester. Engberg
32. **Insurance**—Mathematical principles of insurance, especially of life insurance. This course should be taken in connection with Political Economy 6. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. Second semester. Engberg

### Biometry

The mathematical theory of evolution. A mathematical analysis of botanical and biological problems. An extended knowledge of mathematics is not necessary, although of great aid. The work is intended primarily for advanced students in the natural sciences who can apply this work to their researches, but it is open to other students.

**35. A Review of Preliminary Mathematics**—Followed by study of various frequency curves and applications to individual problems. Two hours attendance. Two hours credit. First semester. Engberg

**36. A Review of Preliminary Mathematics**—35 continued. Studies in error correlations of frequency constants, variation, organic correlation, regression, heredity, spurious correlation and fixture of type. Two hours attendance. Two hours credit. Second semester. Engberg

**37. Studies in Organic and Fraternal Correlation and Problems in Heredity**—One hour attendance. One to three hours credit. First semester. Engberg

**38. Studies in Organic and Fraternal Correlation and Problems in Heredity**—37 continued. Second semester.

### MILITARY SCIENCE AND TACTICS

Captain Halsey E. Yates, Inf., U. S. A., Commandant

By the rules of the Board of Regents, all male students in the College of Arts and Sciences, the College of Agriculture, the College of Engineering, and the long-term students in the School of Agriculture are required forthwith after matriculation to take military work. The requirements cover four semesters.

The annual cadet encampment is held at such time as the Chancellor and Commandant may direct. During the encampment instruction is given in Minor Tactics.

All cadets are required to pay an annual Military fee as set forth on page 72.

#### Infantry Drill

Required of all cadets except members of the Band

**A1. First Year Infantry Drill**—(a) First Regiment: practical—infantry drill and rifle practice. Four hours attendance. One hour credit. First semester. (b) Second Regiment: practical—infantry drill and rifle practice. Three hours attendance. First semester. Yates

**A2. First Year Infantry Drill**—(a) First Regiment: practical—same as A1 and guard duty. Four hours attendance. One hour credit. Second semester. (b) Second Regiment: practical—same as A1. Three hours attendance. Second semester. Yates

**AA1. Second Year Infantry Drill**—(a) First Regiment: practical—same as A1 and drill-master work. Four hours attendance. Theoretical

—Small Arms Firing Manual and Manual of Guard Duty. Four hours attendance per week during November, December and January. One hour credit. (b) Second Regiment: practical—same as for First Regiment. Three hours attendance. Theoretical—same as for First Regiment. Yates

**AA2. Second Year Infantry Drill**—(a) First Regiment: practical—same as AA1. Theoretical—field service regulations during February. Four hours per week. Lectures by Commandant. One hour credit. (b) Second Regiment: practical—same as AA1. Theoretical—same as for First Regiment. Three hours attendance. Yates

**AAA1. Third Year Infantry Drill**—Second Regiment: practical—same as AA2 and drill-master work. Three hours attendance. Yates

**AAA2. Third Year Infantry Drill**—Second Regiment: practical—same as AAA1. Three hours attendance. Yates

### Cadet Band

The Cadet Band is open to all male students. Cadets not in the band who desire to transfer to it should apply to the Commandant.

The band is organized as a part of the first battalion and is under military discipline at all times. One hour credit is given for each third and fourth year membership.

**B1. First Year Cadet Band**—Four hours attendance. (a) Music. (b) Practical—infantry and band drill. One hour credit. First semester.

(a) Cornell

(b) Yates

**B2. First Year Cadet Band**—B1 continued. Second semester.

**BB1. Second Year Cadet Band**—B2 continued. First semester.

**BB2. Second Year Cadet Band**—BB1 continued. Second semester.

**BB3. Third Year Cadet Band**—BB2 continued.

**BB4. Fourth Year Cadet Band**—BB3 continued.

### Elective Courses

May be taken by cadets who have completed the required courses.

**S1. Instruction of Cadets**—Drill master work. Army papers. Lectures by Commandant. Open only to selected cadets (Juniors) who have shown exceptional ability in military science. Four hours attendance. Two hours credit. First semester. Yates

**S2. Instruction of Cadets**—S1 continued. Second semester. Four hours attendance. Two hours credit.

**SS1. Instruction of Cadets**—S1 continued. Open only to selected seniors. Four hours attendance. Two hours credit.

**SS2. Instruction of Cadets**—SS1 continued. Second semester. Four hours attendance. Two hours credit.

## MUSIC

Mrs. Raymond, Director

**3. Chorus Conducting**—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. The chorus gives a series of Vesper Services assisted by a string quartet. One of the Grand Operas is studied each year and "*The Messiah*" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester. Raymond

**4. Chorus Conducting**—3 continued. Second semester.

## PHARMACOLOGY

Professor Lyman, Instructor Day

**5. General Pharmacology**—A course designed for teachers and students of biology who wish a general knowledge of the physiological action of drugs. The greater part of the time is devoted to the experimental study of the physiological and pathological changes induced by the narcotics and habit producing drugs. No prerequisites. One to two hours attendance. Two to four hours laboratory. One to two hours credit. First semester. Lyman

**6. General Pharmacology**—Continuation of 5. Second semester.

## PHILOSOPHY

Head Professor Wolfe, Professor Alexander, Professor Hinman,  
Dr. Hyde

The primary aim of work in Philosophy is to serve as an organizing discipline in a general education, and to correct the narrowness often incident to specialization. It is an efficient means for the development of breadth, balance, culture, and maturity. It lies nearer today than ever before, probably, to the various sciences, social, historical, biological, and physical, on the one hand, and to the requirements of practical life on the other. Students seeking to make this use of Philosophy may begin with either course 1, course 3, or course 4 as early as the first semester of the sophomore year, and should carry a course each semester thereafter, the

complete program including both Psychology and General Philosophy. Third and fourth year students may also begin their work in Philosophy with any one of the following courses: 21, 30, 51. After the first introductory semester, courses from all sub-groups within the department are equally open to the student.

Another very important aim of the department is to aid in the professional training of teachers. Those who wish to secure the University Teachers' Certificate must take courses 1 and 2 in Elementary Psychology.

#### GRADUATE WORK

The department as now organized has full professors representing each main division of the subject. It is well supplied with library and laboratory facilities, and is enabled to offer ample facilities for graduate work.

Major or minor courses for advanced degrees are arranged for in Psychology, in Ethics, in Logic and Metaphysics, and in History of Philosophy. No special statement of the number of hours required either for the degree of Master of Arts or that of Doctor of Philosophy need be made. Courses are outlined for each individual case in conformity with the general regulations laid down by the Graduate Faculty. Owing to the nature of philosophy as a fundamental discipline in touch with all sciences, graduate students pursuing majors in other specialties will often find a minor in Philosophy of large value.

#### COURSES PRIMARILY FOR UNDERGRADUATES

1. **Elementary Psychology**—A general introductory course, including the elements of descriptive, physiological, and experimental psychology. Designed for students who desire more than one semester in psychology. A good foundation is laid in two semesters for further studies in psychology, philosophy, or education. Botany 1 or Zoology 1 should precede or accompany this course. Not open to first year students. Required for the Teachers' Certificate. Three hours attendance. Two hours laboratory. Three hours credit. First semester.

Wolfe

2. **Elementary Psychology**—1 continued. Second semester.

3. **Elementary Psychology**—A briefer course in general psychology for students wishing the minimum requirements in this field. Not open to first year students. Three hours attendance. Two hours laboratory. Three hours credit. Second semester. Given in Summer Session, 1912. Wolfe

4. **Logic, Deductive and Inductive**—Practice in logical analysis, the use of syllogism and inductive methods, and detection of fallacies. Three hours attendance. Three hours credit. First and second semesters.

Hinman

### I. Psychology

11. **Experimental Psychology**—Chiefly laboratory work. The student learns to manipulate all standard apparatus, and becomes somewhat familiar with present laboratory problems. Methods of investigation and of dealing with data are considered. In the second semester about half of the time is devoted to intensive investigation of some problem begun early in the year. Two hours credit. First semester. Wolfe

12. **Experimental Psychology**—11 continued. Second semester.

13. **Genetic Psychology**—A comparative study of the animal mind. Readings and discussions on the methods of investigation, materials accumulated, and conclusions reached. Beginning with the lowest animals, evidences of intelligence are sought in several representative groups. Effort is made to realize the resemblances and differences between the mind of the higher animals and that of man. Two hours attendance. Two hours credit. First semester. Wolfe

14. **Genetic Psychology**—A study of the child mind in development. Essentially a course in the evolution of the individual. The class surveys the material of "child study" on infancy, childhood, and adolescence, reviews normal psychology, and studies old age. A few weeks are given to certain typical forms of abnormal mind, arrested development and genius. Two hours attendance. Two hours credit. Second semester. Wolfe

16. **Educational Psychology**—A practical study of the factors which influence the development of body and mind. May be applied on required hours in education. Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1912. Wolfe

18. **Suggestion**—A survey of the psychology and psycho-pathology of suggestion and allied phenomena. Entrance by permission of instructor. Two hours attendance. Two hours credit. Second semester. Alexander

### II. Ethics

21. **Introductory Ethics**—A study of the fundamental principles of morals. Three hours attendance. Three hours credit. First semester. Alexander

23. **Advanced Ethics**—The object of this course, running for two years, is the intensive study of dominant types of modern ethical systems. Each semester a section of the history of recent ethical debate is chosen for study, and the relevant classical works are analyzed. During 1912-1913 the development of intuitionism, utilitarianism, and idealism will be ex-

amined, involving familiarity with the writings of Martineau, Bentham, Mill, Sedgwick, Kant, Green, Bradley and Taylor. Two hours attendance. Two hours credit. First semester.

Hinman

24. **Advanced Ethics**—23 continued. Second semester.

25. **Advanced Ethics**—During 1912-1913 the object of study will be the evolution of man's moral nature and conduct, and the evolutionary theory of ethics. The relation of this theory to utilitarianism and to idealism will be developed, and attention given to the writings of Darwin, Spencer, Stephen, Sutherland, Westermarck, Alexander, Wundt, and Hobhouse. Two hours attendance. Two hours credit. First semester.

Hinman

26. **Advanced Ethics**—25 continued. Second semester.

### III. Metaphysics and Philosophy of Science

30. **Introduction to Philosophy**—Develops the philosophical conception of Reality as Mind, and applies it in some detail to the interpretation of the system of the sciences. Deals with such ruling ideas as those of matter, force, life, heredity, evolution, purpose, mind, reason, God. Designed to meet the needs of the scientific and general student, and to serve also as a preparation for further work in philosophy. Lectures. Three hours attendance. Three hours credit. First and second semesters.

Hinman

30a. **Philosophical Themes**—Students who have taken or are taking course 30 may mature themselves in this subject and secure additional credit by preparing papers in connection with assigned topics, and carrying out the library work which these involve. No further class attendance. One to three hours credit.

Hinman

33. **Advanced Metaphysics**—A systematic study of contemporary metaphysical thought, based upon an analysis of the debate between the absolute idealist and their recent critics. May be carried profitably by the student who has completed course 30. Three hours attendance. Three hours credit. First semester.

Hinman

34. **Advanced Metaphysics**—33 continued. Second semester.

37. **Logic of Science**—Deals with the nature of conception, judgment, and inference, with reference both to general philosophical results and to the methodology of science. Bosanquet's larger *Logic* is the basis of the course. Two hours attendance. Two hours credit. First semester.

Hinman

38. **Logic of Science**—37 continued. Second semester.

## IV. Aesthetics

41. **Philosophy of Criticism**—Origin and development of the different types of artistic expression; the formation and significance of art traditions; analysis of such conceptions as naturalism, symbolism, realism, idealism, classicism, romanticism, etc. Two hours attendance. Two hours credit. First semester. Alexander

42. **Philosophy of Criticism**—41 continued. History of aesthetic criticism. Aristotle's *Poetics*, Longinus *On the Sublime*, and other treatises, are read in English. (Course 41 not necessarily prerequisite.) Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1912.

## V. History of Philosophy

- 50. Humanism**—Historical phases of the conception of culture: The Graeco-Roman ideal of enlightened living; humanism of the Italian Renaissance; the 18th century “Enlightenment” and political humanitarianism; the metaphysical humanisms of today. Three hours attendance. Three hours credit. Second semester. Given in Summer Session, 1912.

- 51. History of Philosophy**—Survey of the principal philosophical systems in their development and relation to the political and social conditions of their times. Three hours attendance. Three hours credit. First semester. Alexander

- 52. History of Philosophy**—51 continued. Second semester.

- 53. Greek and Medieval Philosophy**—Special studies in the history of philosophy for advanced students. Topics for 1912-1913: Greek Cosmology. One session weekly. Two hours credit. First semester. Alexander.

- 54. Greek and Medieval Philosophy**—53 continued. Second semester.

55. **German Voluntarism**—Schopenhauer, *Die Welt als Will und Vorstellung*. Reading of the text in German will be required. Two hours attendance. Two hours credit. First semester. Hyde

- 56. German Voluntarism--55 continued. Second semester.**

57. **German Idealism**—Kant and Hegel. First semester devoted to the Critical philosophy. Brief study of background of Criticism in English Empiricism; careful study of teachings of Kant's three *Critiques*. Two hours attendance. Two hours credit. First semester. Hinman

- ### 58. German Idealism—57 continued. Development of Kantian doctrine

in its idealistic phases by his successors briefly traced; culmination of post-Kantian Idealism, studied at length in Hegel's Smaller Logic. Second semester.

Hinman

**57a. English Empiricism in the Nineteenth Century**—Mill and Spencer. After a brief study of Hume, the development of Empiricism will be traced in the Associational school, and its culminating phases in the philosophical views of John Stuart Mill will be analyzed in detail. Two hours attendance. Two hours credit. First semester.

Hinman

**58a. English Empiricism in the Nineteenth Century**—57a continued. Spencer's Synthetic Philosophy. Second semester.

## VI. History and Philosophy of Religion

**60. Philosophy of Religion**—Nature and meaning of religion and grounds of religious beliefs in view of the rational interpretation of the universe made by modern science and philosophy. Origin and evolution of religion, the psychology of religion, arguments for the existence of God, modern conceptions of God and Immortality. One hour attendance. One hour credit. Second semester.

Hinman

**61. History of Religion**—After an examination of the origin of religion and its form among primitive peoples its history is traced at some length among the Aryans, and more briefly among Chinese, Japanese, Egyptians, Babylonians, and Semitic races. The greater religions are analyzed in order to explain and evaluate the philosophical views which they involve. Three hours attendance. Three hours credit. First semester.

Hinman

**62. History of Religion Among the Hebrews** (briefer course)—Essentially a library course on the development of Israel's religious ideals, as reflected in the Old and New Testaments, and interpreted in the spirit and by the methods of the higher criticism. Open only to students who have had course 30 or course 61, or other work of equal value for training to critical and constructive thinking in this field. Lectures, conferences, and readings. Three hours credit. Second semester.

Hinman

[**63. History of Religion Among the Hebrews** (fuller course)—A systematic study of the religious history and literature of Israel, with the aid of the philosophical, scientific, and literary auxiliaries now available. The course will be open to students who have not had previous philosophical work; for the best results, however, it should be either preceded, accompanied, or followed by the introduction to philosophy (course 30). Lectures and readings. Two hours attendance. Two hours credit. First semester. *Given in 1913-1914.*

Hinman]

[64. **History of Religion Among the Hebrews** (fuller course)—63 continued. Second semester. To alternate with courses 61 and 62. *Given in 1913-1914.*]

PRIMARILY FOR GRADUATES

71. **Psychological Seminary**—The year will be given to the study of some problem, or group of closely allied problems, to be definitely determined by the interests of the members of the seminary. Seniors who have had 1 and 2, and who are taking 11 or 12 may elect this course. During the year 1912-1913 the Psychology of Learning, or the Psychology of Interest may be considered. Two hours attendance. Two hours credit. First semester. Wolfe

72. **Psychological Seminary**—71 continued. Second semester.

73. **Ethical Seminary**—Study of special problems in ethics. Two hours attendance. Two hours credit. First semester.

74. **Ethical Seminary**—73 continued. Second semester.

75. **Seminary in Logic and Metaphysics**—Two hours attendance. Two hours credit. First semester. Hinman

76. **Seminary in Logic and Metaphysics**—75 continued. Second semester.

PHYSICAL EDUCATION

Head Professor Clapp, Professor Stiehm, Adjunct Professor Gittings,  
Instructors Day, Beghtol and Reynolds

GENERAL INFORMATION

The practice courses in physical education are open, as electives, to men. No students may take work in the department without regular registration.

Members of all classes in physical education and of all University athletic teams are required to take a physical examination at the beginning of the college year or at the beginning of the semester in which that training begins.

Unless excused, all women are required to take physical training four days per week for the first two years.

The general health of all women is carefully looked after by the director of the women's gymnasium and the examining physician for women. Special medical gymnastics is given to those whose health does not permit them to take the general class work.

Men are required to wear gray Turner trousers, navy blue sleeveless

jerseys and heelless shoes. Women are required to wear uniform gymnasium suits, which should, *under no conditions*, be ordered before consulting the instructor.

#### TEACHERS' CERTIFICATE IN PHYSICAL EDUCATION

The University Certificate in Physical Education is granted to graduates of the University who have satisfied all the special requirements given below and whose work in general, special and professional subjects has been of a high order. Graduates from other universities and from colleges of high rank may receive this certificate upon the same terms as graduates of this institution. Students not graduates of this University or of institutions of equal rank, who complete this course, receive statements to that effect and also credit for their work toward a degree. Requirements: Rhetoric 1 and 2; Chemistry 1 and 2; Zoology 1, 2, 7; Anatomy 15 and 16; Physiology 1 and 2; Philosophy 1 and 2; Physical Education (theory) 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 17, 18, 20, 37, 38, 39 and 40 for both men and women (except 37, 38, and 5, which are not required for women); Physical Education (practice) 13, 14, 15, 16, 31, and 32 for men, 21, 22, 23, 24, 33, and 34 for women. Ability to use the common strokes in swimming is also required. The professional work for the certificate should be taken with other undergraduate studies.

#### Physical Education—Theory

1. **Hygiene**—Advantages of regular exercises. Bathing and clothing. Care of the eye. Respiration and circulation. Digestion: foods, their value, source and digestibility. Stimulants and narcotics. Water supply. Ventilation, heating, draining, plumbing, sewerage. Special physiology and sex hygiene as cause of disease. Two hours attendance. Two hours credit. First semester. Clapp

[2. **Physical Diagnosis**—Theory and practice of normal and abnormal physical signs of the thoracic organs. Two hours attendance. Two hours credit. Second semester. *Not given in 1912-1913.* Clapp]

3. **Anthropometry**—History. Measurements, their statistical and diagnostic value. Practice in taking and recording measurements and in making charts. Laws of human proportion. Average, mean, and ideal types. Analysis and critical inspection of measurements and personal histories for determining fitness for gymnastic work. Two hours attendance. Two hours credit. First semester. Gittings

[4. **Applied Anatomy**—Muscles and their relation to common gymnastic and athletic movements. Presupposes a knowledge of anatomy. Two hours attendance. Two hours credit. Second semester. *Not given in 1912-1913.* Gittings]

[5. **General Athletic Training**—Theory of training for all branches of athletics. Ancient and modern methods. Diet, sleep, bathing and rubbing. One hour attendance. One hour credit. First semester. *Not given in 1912-1913.* Clapp]

7. **Kinesiology**—Aims, varieties and effects of gymnastic movements. Swedish and German methods. Gymnastic terminology. Hygienic, educative and recreative exercises. Two hours attendance. Two hours credit. First semester. Gittings

8. **Physiology of Bodily Exercise**—Physiological features of training, breathlessness, fatigue and stiffness. Testing respiratory movements and circulation before and after exercises. Two hours attendance. Two hours credit. Second semester. Clapp

9. **Emergencies**—First aid treatment in case of accidents, such as fractures, dislocations, wounds, hemorrhages, poisoning and drowning. Bandaging, nursing, and general care of the sick. Recitations and demonstration. One hour attendance. One hour credit. Gittings

10. **Medical Gymnastics and Prescription of Exercise**—Corrective gymnastics as applied to abnormal conditions. Special lectures to women on pelvic anatomy. Massage. Theory and practice. Two hours attendance. Two hours credit. Second semester. Gittings

[11. **History and Literature of Physical Education**—Ancient and modern literature covered by assigned readings, digests, reports, discussions and lectures. One hour attendance. One hour credit. First semester. *Not given in 1912-1913.* Gittings]

[12. **Methods and Equipment of a Department**—Gymnasium and athletic field; construction, equipment, organization, rules and management. One hour attendance. One hour credit. Second semester. *Not given in 1912-1913.* Clapp]

[17. **Methods in Teaching**—(Consult instructors before registering). Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.* Men, Clapp; women, Gittings]

18. **Methods in Teaching**—17 continued. Second semester. Day

20. **Track Athletics**—Theory and practice. Technique of track and

field athletics. Systematic preparation for indoor and outdoor athletic events. Two hours theory and two hours practice. Two hours credit. Second semester.

Clapp

**37. Football**—Theory and practice. Sphere in mental, physical and social life. How to play football, including the rudiments of the game and the details of each position. Rules. Alterations in rules. Training. History of football.

Library readings, written reports, laboratory work and lectures. Two hours attendance. Two hours laboratory. First semester. Stiehm.

**38. Football**—37 continued. Second semester.

[**39. Playgrounds**—Philosophy of play. Aims and purposes of the playground. Organization, construction, equipment, administration and management. Playground activities; games, festivals, and social work. Lectures, readings, reports and practice. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.* Gittings]

[**40. Playgrounds**—39 continued. Second semester. *Not given in 1912-1913.]*

### Physical Education—Practice

#### MEN—FIRST YEAR

**13. Gymnastics**—(a) Light Gymnastics. free-hand body building, dumb bells and wands.

(b) Heavy Gymnastics—elementary apparatus work and parallel bars, side and long horse, buck, vaulting and horizontal bars and tumbling.

(c) Recreative Gymnastics—Games and contests. Three hours attendance. One hour credit. First semester.

Reynolds

**14. Gymnastics**—13 continued. (a) Light Gymnastics—Continuation of previous semester's work, Indian clubs and elementary gymnastic dancing.

(b) Heavy Gymnastics—Continuation of previous semester's work.

(c) Recreative Gymnastics—Continuation of previous semester's work. Boxing and wrestling. Second semester.

Reynolds

Students who have registered and received credit for courses 13 or 14 will not hereafter be allowed to re-register for the same course.

#### MEN—SECOND YEAR

**15. Gymnastics**—Advanced light and heavy gymnastics. Games and contests. Wrestling and fencing. Course open to men who have completed Physical Education Courses 13 and 14 or their equivalent. Two or three hours attendance. Two-thirds or one hour credit. First semester.

Clapp

16. **Gymnastics**—15 continued. Second semester.
31. **Leaders' Class**—Members must be proficient in all forms of gymnastics. Consult instructor before registering. One hour credit. First semester. Clapp, Reynolds
32. **Leaders' Class**—31 continued. Second semester.

## WOMEN—FIRST YEAR

21. **Light Gymnastics**—Swedish gymnastics. Correction of improper walking and standing positions. Elementary dancing and gymnastic games. Lectures in personal hygiene. Four half hours' attendance. One hour credit. First semester. Gittings, Beghtol
22. **Light Gymnastics**—21 continued. Elementary work on balance beams, spring boards, stall bars, booms, ropes, etc. Four half-hours' attendance. One hour credit. Second semester. Gittings, Beghtol

## WOMEN—SECOND YEAR

23. **Light Gymnastics**—Military marching. German gymnastics, dumb bells, wands, and Indian clubs. Elementary exercises on horse, parallel bars, flying rings and buck. Athletic and gymnastic games. Folk and artistic dancing. Four half-hours' attendance. One hour credit. First semester. Day
24. **Light Gymnastics**—23 continued. Basket ball, indoor baseball, field hockey and tennis. Four half-hours' attendance. One hour credit. Day
33. **Light and Heavy Gymnastics**—(For Normal Training students only.) Advanced Swedish gymnastics on stall bars, boom, parallel bars, ropes, poles, etc. Swedish song-games, folk and aesthetic dancing. Indoor baseball, tennis, basketball and swimming. Six hours attendance. Two hours credit. Gittings, Day
34. **Light and Heavy Gymnastics**—(For Normal Training students only).—33 continued. Advanced work with dumb bells, wands and Indian clubs. Advanced apparatus work on horse, parallel bars, flying and traveling rings, spring board, buck, etc. Fencing. Six hours attendance. Two hours credit. Gittings, Day

## PHYSICS

Head Professor Skinner, Professor Moore, Professor Almy, Assistant Professor Tuckerman, Mr. McComb

Two distinct series of courses are now offered in physics to undergraduates. They differ in the requirements for admission and in the thoroughness of the work.

The first series (1, 2, 3, 4) is prescribed for engineering students. It culminates in 5 and 6 for electrical engineering, with, in addition, 17 and 18 for those taking a major in physics in the College of Arts and Sciences.

The second series (11, 12, 13, 14) is designed for those desiring to study physics from a more purely philosophical—less mathematical—standpoint, and in its relation to other sciences and to natural phenomena. It is open to the students of any college who have *completed* their college entrance requirements. (These courses will be given first in 1912-1913.)

For the University Teachers' Certificate, courses 1, 2, 3, 4, (three hours each) 15 and 16; or 11, 12, 13, 14, 15, and 16 are required for a major in physics. For a minor 15 and 16 may be dropped from the requirement for a major.

#### GRADUATE WORK

For graduate students instruction is given in both theoretical and experimental physics. Lectures are given in the general theoretical branches and are offered on special topics in which the lecturer is immediately interested.

In theoretical physics courses 21, 22, 23, 24 are given in a sequence of four semesters with four hours lecture weekly, while the others are given as the occasion demands.

For the degree of Master of Arts the candidate may offer simply a major in physics, but is advised to offer also a minor in mathematics. In addition to a completed investigation a fair knowledge of theoretical physics is expected. For attaining this degree two years graduate work is usually necessary.

For the degree of Doctor of Philosophy the same progress beyond the Master's as that represents over the baccalaureate is required. In addition to the work in physics and mathematics the candidate must offer also a minor in either chemistry, astronomy or philosophy.

### General and Experimental Physics

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. General and Experimental Physics**—Mechanics of solids and fluids. Two hours lecture with illustrative experiments. Solution of problems. Four hours laboratory. Three hours credit. First semester.

Almy, McComb, Spencer

**2. General and Experimental Physics**—Heat and sound. As in 1. Second semester.

**3. General and Experimental Physics**—Electricity. Two hours lecture with illustrative experiments. Four hours laboratory. Two or three hours credit. First semester.

Skinner, Moore, Spencer

4. **General and Experimental Physics**—Light. As in 3. Second semester.

5. **Problems in Electricity**—(Prerequisite: Course 3.) Two hours attendance. Two hours credit. Second semester. Tuckerman

6. **Electrical Measurements**—(Prerequisite: Courses 3 and 5.) Eight hours laboratory. Three hours credit. First semester. Tuckerman

11. **Arts Course in General and Experimental Physics**—Mechanics, sound and heat. For the nature of this course and conditions for admission see above. Three hours lecture with illustrative experiments. Four hours laboratory. Three hours credit. First semester.

Skinner, McComb, Spencer

12. **Arts Course in General and Experimental Physics**—Electricity and light. A continuation of 11. Four hours laboratory (eight for medics). Three (or four) hours credit. Second semester.

Skinner, McComb, Spencer

13. **Experimental Physics for Arts Students**—This is simply an extension of the laboratory work of courses 11 and 12. Four hours laboratory. Outside preparation. Two hours credit. Each semester. Moore

14. **Experimental Physics for Arts Students**—A continuation of 13. Each semester. Two hours credit. Moore

15. **Teachers' Special Methods in Physics**—Discussion of methods and procedure in teaching high school physics. Guiding principles in the selection and adaptation of subject-matter and laboratory exercises. Choice of apparatus and supplies. Equipment and efficient administration of the laboratory. Difficulties of physics teaching in high schools generally. Such understanding and organization of the teaching procedure as may reasonably assure successful teaching service from the outset. Prerequisite: Courses 1, 2, 3, 4, or 11, 12, 13, 14. Two hours attendance. Three hours preparation. Two hours credit. First and second semesters. Given in Summer Session, 1912. Brownell

15b. **Teachers' General Course in Physics**—Primarily for Summer School. The selection and working of experiments to constitute a year's course in high schools—qualitative and quantitative, for laboratory and for lecture table. Organization of the subject-matter to be taught in connection with such experiments. Parts of subject presenting special teaching difficulties in high school work given careful exposition. The laboratory work a series of exercises fundamental in the teaching process. Two hours attendance. Two hours preparation. Four hours laboratory. Two hours credit. Given in Summer Session, 1912. Brownell

**16. Teachers' Laboratory Course in Physics**—A semester of teaching of classes in high school physics under closest critical supervision. Involves (a) class management, preparation for class instruction, making of lesson plans, review of examination papers, provision for desk experiments; (b) direction of the laboratory work of sections of high school physics classes, with care of the laboratory and its supplies, preparation in advance for the experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. To follow or in connection with Physics 15. Two hours conference. Four hours laboratory. Three hours teaching. Two hours credit. First and second semesters.

Brownell

**17. Exact Physical Measurements**—In heat, the determination of freezing and boiling points; in electro-chemistry, the study of electrolysis, conductivities, electromotive forces and electrolytic polarization; in optics, the use of the spectroscope, diffraction grating, interferometer, polariscope and accessories. Open to students who are taking special work in physics, chemistry, or astronomy and experiments are selected to fit the demands of their specialty. One hour reading. Six hours laboratory. Three hours credit. First semester.

Moore

**18. Exact Physical Measurements**—As in 17. Second semester.

## FOR UNDERGRADUATES AND GRADUATES

**19. Advanced Experimental Physics**—Exact determination of physical constants, requiring a careful duplication of some classic experiments in physics in which a single experiment is expected to cover a period of about one semester, or an introduction to research. Fifteen hours laboratory. Five hours credit. First semester.

Skinner, Moore, Almy

**20. Advanced Experimental Physics**—As in 19. Second semester.

## PRIMARILY FOR GRADUATES

**Research**—Original investigation of some problems in physics. No time limit imposed. Less than fifteen hours a week is not advisable.

Skinner, Moore, Almy

## Theoretical Physics

## PRIMARILY FOR GRADUATES

**21. Dynamics of Discrete Particles**—Formal development of the general principles of mechanics: D'Alembert's Principle; Gauss' Principle of Least Constraint; Hamilton's Principle of Least Action; La Grange's Equations; Hamilton's Canonical Equations; applications to special problems. Four hours lecture. Four hours credit. First semester.

Tuckerman

22. **Elasticity and Hydrodynamics**—*Elasticity*: Deformations of homogeneous media, isotropic and crystalline; vibrations of isotropic media; applications to special problems. *Hydrodynamics*: Irrotational and vortex motions; scalar and vector potentials; application to mechanical theories of electromagnetic phenomena. 21 continued. Second semester.

Tuckerman

23. **Electricity and Magnetism**—The fundamental equations of Maxwell, applied to the theory of Static, Stationary, Quasistationary, and Kinetic Electromagnetic fields. A short outline of Vector Analysis and Quaternions (Hamiltonian and Continental Notations) is given as an introduction. Four hours attendance. Four hours credit. First semester.

Tuckerman

24. **Electro-Optics**—Electromagnetic oscillations and their application to the theory of light. 23 continued. Second semester. Tuckerman

25. **Thermodynamics**—Development of the principles of thermodynamics from the two "fundamental laws." Two hours credit. One semester.

Skinner

26. **Heat Radiation**—Thermodynamic theory of radiation. Two hours lecture. One semester. Two hours credit. Skinner

27. **Theory of Sound**—Theory of small oscillation of strings, bars, and air columns; propagation of sound. Three hours credit. One semester.

Almy

28. **Optics**—Theory of ray systems; application to optical instruments. Three hours credit. One semester. Skinner

29. **Thermo- and Electro-Chemistry**—Three hours credit. One semester.

Moore

30-31. **Theory of Changes of Physical State and Chemical Constitution of Bodies**—Two hours credit. First and second semesters. Moore

32. **Electric Conduction in Gases**—Faraday's law; ionic velocities; cathode rays; radioactivity; electron theory. Two hours credit. One semester.

Skinner

**Physical Colloquium**—Instructors and graduate students meet weekly for presentation of short papers on the progress of their investigations and those reported in current periodicals.

## PHYSIOLOGY

Professor Guenther, Dr. Welch

A consideration of the facts and theories of vital phenomena with

special emphasis upon secretion, digestion, absorption, metabolism, circulation, respiration, animal heat, the central nervous system, special senses and reproduction.

Courses 1 and 2 are intended for students desiring a general knowledge of human physiology. Although they are open to all students a preparatory year in general zoology is highly recommended. Students must not enter upon courses 12 and 13 without the prerequisite courses in general biology, physics, chemistry, histology, mammalian anatomy, embryology, and neurology required of medical students.

Candidates for advanced degrees must have completed the general scientific course in this University, or its equivalent. The ability to read French and German is desirable. Candidates will consult with the head of the department before registering.

Master of Arts—Second Minor: Courses 1 and 2. First Minor: Courses 1 and 2 and assigned reading. Major: Courses 1 and 2, assigned reading and thesis.

Doctor of Philosophy—First or Second Minor: Courses 1, 2, and assigned reading. Major: Completion of an investigation acceptable for publication in some standard journal of science.

1. **Human Physiology**—Lecture, demonstration and laboratory course. Two hours lecture. Three hours laboratory. Two hours credit. First semester. Guenther

2. **Human Physiology**—1 continued. Second semester.

12. **Advanced Physiology**—Four hours quiz. Eight hours laboratory. Six hours credit. Second semester. Guenther

13. **Advanced Physiology**—12 continued. Three hours quiz. Three hours laboratory. Four hours credit. First semester.

14. **Physical Diagnosis**—Two hours quiz. Two hours laboratory. One hour credit. Second semester. For medical students. Welch

## POLITICAL ECONOMY AND COMMERCE

Head Professor Le Rossignol, Professor Virtue, Assistant Professor Stephens, Dr. England

### UNDERGRADUATE WORK

Students who can take but one course in Political Economy are advised to take course 1. Those who expect to take several courses may begin with course 1, which is prerequisite to all but courses 3, 4, 7, 9, 10, 11, 12, and 14; or they may begin with some of these more descriptive courses, which give a good preparation for course 1.

Students taking a major (24 hours) in Political Economy are required to take course 1, and are strongly advised to take courses 2, 9, 10, 15, and 16, without which their work will lack a proper historical and theoretical basis. Certain courses, too, in History, Political Science and Geography are almost indispensable as preparation for economic studies. In fact a student's preparation cannot be too thorough, and Literature, Mathematics, Philosophy and other more strictly cultural studies are highly recommended.

Many of the courses in Political Economy are of special value to students preparing for agriculture, law, journalism, the public service, insurance, banking, or other lines of business activity, and students should plan their courses in consultation with the instructors of the department with such ends in view.

#### GRADUATE WORK

Candidates for the degree of Master of Arts are required to complete at least one year's work and to present a satisfactory thesis, showing ability to carry on independent investigation and to assemble the results. A candidate may give all of his time to economic studies or he may offer a major (18 hours) in one department and a minor (12 hours) in another.

Candidates for the degree of Doctor of Philosophy are required to complete at least the equivalent of three years work after taking the Bachelor's degree, or two years work after the Master's degree, but the degree will not be granted unless the candidate attains a satisfactory standard of scholarship, irrespective of time of residence or study. In addition to his major course, which should represent about three-fifths of the total work, the candidate may offer either one minor or two. Candidates taking a major in Political Economy are usually advised to take minors in History, Political Science, Philosophy, Geography or other subjects more or less closely related to the major. In every case a thesis is required, embodying the results of an original investigation.

The University offers excellent opportunities for graduate study and research. Several important libraries are accessible to students, and there is no lack of promising fields of investigation, particularly along lines of public and private finance, economic history of Nebraska and the west in general, agricultural conditions, commercial relations and problems of capital and labor. The Department offers a number of special courses, and these may be supplemented by allied courses in other departments.

#### COURSES PRIMARILY FOR UNDERGRADUATES

1. **Principles of Political Economy**—Elementary course. Preliminary view of the subject. Intended as a general preparation for the more gen-

eral courses offered in the department. The industrial organization of society; development of natural resources; occupations and the division of labor; production, exchange and distribution of wealth; utility and value; wages, interest, rent and profits; money and credit; rise and fall of prices and the cost of living; transportation; domestic and foreign commerce; protection and free trade; trusts and trade unions; state and municipal ownership; socialism. (This course is prerequisite to all of the following except courses 3, 4, 7, 9, 10, 11, 12 and 14. Three hours attendance. Three hours credit. First and second semesters. Two sections in each semester.

Le Rossignol, Virtue, Stephens, England

2 (formerly course 25). **Money and Banking**—Origin of money; early forms of currency; metallic money; credit money; monetary history of the United States; bimetallism; the gold standard; relation of money and credit to the general level of prices; nature and uses of credit; domestic and foreign exchange; history and theory of banking; banking systems of Great Britain, Germany, France and Canada; national, state and private banks; practical banking; proposal for banking reform. Three hours attendance. Three hours credit. Second semester. Le Rossignol

3. **American Industries**—A study of typical agricultural, extractive, and manufacturing industries of the United States. After tracing the principal raw materials from the producer to the factory, the various processes involved in manufacturing finished products are outlined. Then the finished products are traced to the consumer, great emphasis being laid upon marketing and shipping problems. Some of the industries are covered by lectures by the instructor and some by co-operative topical work on the part of the students. Two hours attendance. Two hours credit. First semester. Stephens

4. **Geography of Commerce**—A general survey of the fundamental conditions and human agencies affecting industrial and commercial development, followed by a careful study of the natural resources, industries, products and commerce of each of the principal countries of the world. Emphasis is laid upon the localization of industry and the consequent commercial relations between countries. (For a discussion of the physical basis of commerce attention is called to courses 5 and 6 of the department of Geography.) Two hours attendance. Two hours credit. Second semester. Stephens

5 (formerly course 7). **Accounting**—An interpretation of the fundamental principles of modern accounting from the standpoint of business manager and accountant. The course includes a study of the balance

sheet; the assets and methods of valuation; the loss and gain account; cost accounts; the depreciation account; capital; surplus, reserve, and sinking funds. The treatment of the course centers about mercantile and manufacturing accounting. Entrance to the course is conditioned on a thorough study of bookkeeping and course 1. Three hours attendance. Three hours credit. First semester.

Stephens

6 (formerly course 9). **Insurance**—The historical development of marine, fire, life, accident, health, liability and other forms of insurance is briefly outlined, and their economic importance shown. The essential features of insurance administration, governmental control and supervision of insurance companies, the various methods of computing premiums, the organization and management of agencies, taxation of insurance companies, and other important questions are discussed. Special attention is given to a detailed comparative study of the chief provisions in various sample policy contracts. (Students desiring to study the mathematical basis of insurance are advised to take Mathematics 32.) Three hours attendance. Three hours credit. Second semester.

Stephens

7 (formerly course 13). **History of Commerce**—The development of commerce during mediaeval and modern times; the bases of commercial prosperity; the relation of the state to trade and industry; the growth of commerce during mediaeval and modern times; the bases of commercial exchanges, the trading companies and corporations; the development of shipping and the art of navigation; commercial policy of leading nations and an examination of the theories upon which they have rested. Two hours attendance. Two hours credit. First semester.

Virtue

[9. **Economic History of England**—A study of the stages through which English industry has passed: The agricultural organization under feudalism and the breakdown; important changes in agriculture in the 18th and 19th centuries; the evolution and organization of manufactures; the gild and domestic systems; the rise of the factory system and its social and industrial results; the industrial revolution; commercial history; the mercantile system and its decline; recent movement for protection; England's present industrial position. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.*

Virtue]

10 (formerly course 17). **Economic History of the United States**—

A study of the economic development of the United States from colonial times to the present. Special attention is given to the settlement of the land and extension of farming area, to the application of machinery to agriculture, to the development of manufactures, to the increase in trans-

portation facilities, and to the growth of internal and foreign trade. Text-book, oral and written reports. Two hours attendance. Two hours credit. Second semester.

Virtue

11 (formerly course 12). **The Economics of Colonization**—The economic objects and importance of present-day colonization. Nature of state expenditures whether for military or developmental purposes. Does state expenditure for colonies pay? Does trade follow the flag? Do colonies provide an outlet for capital? Will the white man settle the tropics? Especial attention given to American colonization and to African colonial problems. Three hours attendance. Three hours credit. First semester.

England

12. **Economic Development in the Far East**—Monetary reforms in the Orient; extension of banking, investment of Western capital; projection of railways; opening of mines; development of commerce; share of Europe and America in Oriental trade; economic value of Central Asia; effect of industrial development of Japan and China upon the political control of Asia. Three hours attendance. Three hours credit. Second semester.

England

14 (formerly course 44). **Economics of Agriculture**—A study of farm organization and management; size of farm units; forms of tenure; problems of tenancy; methods of marketing farm products; cooperation in selling and buying; in the dairy industry; in supplying credit and insurance; social conditions of rural life. Text book, reports and discussions. Two hours attendance. Two hours credit. Second semester.

Virtue

#### FOR GRADUATES AND UNDERGRADUATES

15 (formerly course 19). **History of Economic Thought**—Economic theory in ancient and mediaeval times: beginnings of economic science; Mercantilists, Cameralists and Physiocrats; Adam Smith, Malthus, Ricardo, J. S. Mill and other classical economists; Karl Marx and the economics of socialism; Roscher and the Historical School; Jevons and the Austrian School; relation of industrial conditions to economic theory. Students registering in this course are expected to continue in course 16. Two hours attendance. Two hours credit. First semester.

Le Rossignol

16 (formerly course 20). **Recent Economic Theory**—A continuation of course 15. A special study of recent English and American economists. The subject is changed from year to year. Last year the works of Marshall and Fisher were used as the basis of the course; this year Taussig's

"Principles of Economics" will be used and each member of the class will select some one other writer for special study. Two hours attendance. Two hours credit. Second semester.

Le Rossignol

17 (formerly course 21). **Financial History of the United States**—The course covers the field of the financial operations of the Federal government since 1789, but gives special prominence to the period since 1860. It deals with sources of Federal revenue and objects of expenditure; the movement of the public debt and its management; the evolution of our monetary and banking systems and current movements for their reform. Text, written and oral reports. Two hours attendance. Two hours credit. First semester.

Virtue

[18 (formerly course 14). **Tariff History of the United States**—While the tariff policy of the United States and its relation to industry and trade is the chief subject of study, the course also includes a survey of the tariff systems of other countries; a study of the merits of protection and free trade; our reciprocity agreements and their results; the consular service and its effects on trade development; the history of American shipping, the causes of its decline, the proposed methods of restoring it; recent progress and change in the character of our foreign trade. Two hours attendance. Two hours credit. Second semester. *Not given in 1912-1913.*

Virtue]

19 (formerly course 23). **History of Economic Crises**—A comparative study of the economic, industrial and financial crises from the seventeenth century to the present day. Especial attention given to the recent world crises. The work covers the local and minor crises preliminary to the main crisis, and the transmission of the crisis from country to country; the fluctuation in investment, bank items, and prices in the principal countries; the action and reaction between industrial activity and financial business. Supplementary readings on the theory of crises. Three hours attendance. Three hours credit. First semester.

England

21 (formerly course 35.) **Stock and Produce Exchanges**—Boards of Trade: A description of the nature of the business carried on in the Paris Bourse, the Stock Exchange of London, the New York Stock Exchange, the New York Produce Exchange, the New York Coffee Exchange, the Cotton exchanges of New Orleans, Liverpool, and New York, and the Chicago Board of Trade. Options and futures, puts, calls and straddles. Corners in stocks, wheat, and cotton. Biographical sketches of prominent operators. Three hours attendance. Three hours credit. First semester.

England

[23 (formerly course 40). **Municipal Industries**—A study of the principles and methods involved in the construction and operation of municipal public utilities; growth and importance of these industries in the United States and in foreign countries; direct versus contract method of construction and repairs; municipal ownership versus regulated private ownership of the leading public service utilities. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.* Stephens]

24 (formerly course 33). **Railway Transportation**—This course includes a brief survey of the evolution of transportation; its relation to economic and social life; problems of railway competition and how they have been met; financial methods of railway companies; railway accounts; principles of rate making; state and federal legislation; public control through state and federal commissions; government ownership and its results. Text, discussions, written and oral reports. Three hours attendance. Three hours credit. Second semester. Virtue

25 (formerly course 27). **Corporation Finance and Investments**—This course includes an introductory study of the historical development of corporations; the advantages and disadvantages of large scale production; the various forms of combination such as pools, trusts and holding companies; followed by a detailed study of the methods of promoting and capitalizing larger combinations, and various other important problems involved in their financing. Special emphasis is given to the discussion of the merits and demerits of the stocks and bonds of industrial, public service and railway corporations as investments, and the stock market methods underlying their purchase and sale. Two hours attendance. Two hours credit. First semester. Stephens

26 (formerly course 28). **Trust Problems**—The rise and development of trust forms of business organization; the conditions essential to the operation and growth of trusts; the elements of large-scale production and monopoly entering into the formation of trusts; dangers arising from their unrestricted operation; remedies, including governmental interference; Federal and state anti-trust laws and decisions. Two hours attendance. Two hours credit. Second semester. Stephens

[27. **Investments**—What becomes of the world's savings; what determines the direction of investment; connection between promotion and profits; promotion and prices; effect of interest rates upon promotion. A study of promotion by decades or cycles; geographical study of investment; Africa, South America, the Orient, and colonial territories. Three hours attendance. Three hours credit. First semester. *Not given in 1912-1913.* England]

28 (formerly course 24). **Statistics and Prices**—A study of the theory, preparation, interpretation, and application of economic statistics with especial reference to prices; the determination of the rise and fall of general prices; the comparison of the movement of prices of raw materials and finished products; prices in relation to wages and interest; price cycles; stock prices and profits. (Students desiring further work in statistics are advised to take Mathematics 31.) Three hours attendance. Three hours credit. Second semester.

England

31. **Public Finance**—This course embraces a study of the objects and growth of public expenditures of the leading nations; sources of revenue from government industries and from taxation; the chief features of various tax systems, especially of the United States and England; the principles upon which different forms of taxes rest and their industrial effects; systems of financial administration, especially the methods of managing the budget; public debts, their forms and methods of management. Text, discussions, written and oral reports. Three hours attendance. Three hours credit. First semester.

Virtue

32. **State and Local Taxation**—A seminary course with special reference to conditions, past and present, in Nebraska. A comparative study is made of the tax laws of various states, methods of administration and current movements for tax reform. Open to those who have had course 31, or its equivalent. Three hours credit. Second semester.

Virtue

33. **Seminary on Nebraska History, Politics, and Economics**—Combined research seminary of the departments of American History, Political Science and Sociology, and Political Economy. General subject for 1912-1913 will be the earlier periods of Nebraska; special assignments may be made upon any phase of Nebraska's development if desired and convenient. Open to advanced undergraduates on consultation with instructors, and to graduates. Two hours attendance. Two hours credit. May be registered for in either of the three departments. First semester. Given every year.

Caldwell, Le Rossignol, Virtue, Persinger, Stephens, Sheldon

34. **Seminary on Nebraska History, Politics, and Economics**—Continuation of 33. Second semester.

35 (formerly course 10). **Work and Wages**—History of the modern labor movement; organization of labor; history of wages in the 19th century; theory of wages; methods of remuneration; hours and conditions of labor; migration; elevation and degradation of labor; strikes; conciliation: voluntary and compulsory arbitration; voluntary and compulsory insurance; pensions; workingmen in politics. (Students desiring further work in labor

problems are advised to take Political Economy 36, 37 and 39 and Political Science 19 and 20.) Three hours attendance. Three hours credit. First semester.

Stephens

**36. Methods of Industrial Peace**—A special study of the labor problem as a conflict between employers and laborers; harmony and divergence of interests; organizations of laborers and employers; their aims and methods; interests of the general public; gains and losses through strikes; conciliation; voluntary and compulsory arbitration; trade agreements; co-operation; profit sharing; political activity of workingmen and benefits obtained through legislation; progress of the working class in the United States and other countries. Three hours attendance. Three hours credit. Second semester.

Le Rossignol

37 (formerly course 22). **Socialism**—History of socialistic thought before the French Revolution; Utopias of Plato, Moore, Campanella; the relation of the French Revolution to modern socialism; utopian theories of Owen, Saint Simon, Fourier; communistic experiments in Europe and America; Proudhon, Blanc and other French socialists; Marx, Engels, Lassalle and other German socialists; growth of socialism throughout the world; socialism in the United States; syndicalism; recent socialist theory and criticism. Three hours attendance. Three hours credit. First semester.

Le Rossignol

[39. **Industrial Efficiency**—Historical treatment from the period of the Industrial Revolution to the present. A critical study of the fundamental factors involved. First, efficiency due to the personal equation of the manual laborer, the salesman, and the manager; the employer's exploitation of the efficient employee; extent to which personal efficiency will result in social benefit. Recent proposals. Second, efficiency due to the capital element in production; the maximum flow of value from the use of land, raw materials, industrial plants, and labor-saving machinery; the capitalists' exploitation of capital and to what extent socially detrimental. Third, efficiency due to organization; forms of organization; direct and joint-stock ownership; competitive, monopolistic and co-operative methods. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.*

Stephens]

[41. **Economic Bibliography**—A course of training in the use of text books, general and special treatises, dictionaries, encyclopedias and other works of reference, state publications, law reports, reports of societies, magazines, newspapers, bibliographies and other material for economic investigation. The course will include a critical study of sources of informa-

tion, the preparation of bibliographies, and, in general, the use of libraries for economic study. Three hours attendance. Three hours credit. First semester. *Not given in 1912-1913.*

Le Rossignol]

[42 (formerly course 37). **Economic Reform**—Seminary on voluntary and compulsory efforts for the improvement of economic conditions; activities of trade unions and fraternal societies; co-operation; profit-sharing; settlement of industrial disputes by conciliation and arbitration; the single tax and other proposed reforms in taxation; governmental control and ownership of railways; monetary and banking reform; compulsory insurance; old age pensions. Each student will be expected to make a somewhat intensive study of some one subject and the class as a whole will study particularly state activities in Australia and New Zealand. Three hours attendance. Three hours credit. First semester. *Not given in 1912-1913.*

Le Rossignol]

## POLITICAL SCIENCE AND SOCIOLOGY

Head Professor Howard, Professor Webster, Associate Professor Eaves,  
Associate Professor Aylsworth, Lecturer Sheldon

### UNDERGRADUATE WORK

Courses 1 and 2 are open to all students and are recommended to those intending to teach civil government, or American history, in the schools, being especially adapted in method and matter to their needs.

**Teachers' Certificate**—Candidates for this certificate may elect the required special work in this department in conjunction with allied subjects. When a student can take but 16 or 17 hours for a major and but 12 or 13 hours for a minor in this department, the following courses are suggested: Major—Courses 1, 2, 21, 15, 16, 31; Minor—Courses 1, 2, 21, 15, 35. Other courses may perhaps be more valuable for particular students. Individual conferences are suggested.

**Vocational Training**—By co-operation with other departments, the department of Political Science and Sociology is able to offer vocational preparation for work in Public Administration, Civil Service, and Social Service. Groups of courses have been prepared conforming to the general requirements of the College of Arts and Sciences, and at the same time affording specialization along the above lines during sophomore to senior years. Students wishing to take advantage of this vocational grouping should elect their Arts and Sciences major in the department of Political Science and Sociology, and on first consultation with the departmental "adviser" should indicate which one of the above vocational lines is intended to be followed.

## REQUIREMENTS AND FACILITIES FOR GRADUATE WORK

The minimum requirement for the degree of Master of Arts is one full year's work or the equivalent of about thirty class-hours, including a thesis. A candidate may devote his entire time to the work of the department; or he may divide it between a major and a minor. A minor is the equivalent of nine class-hours. The selection of courses is influenced by the character of the thesis.

The minimum requirement for the degree of Doctor of Philosophy is three full years' work, of which about three-fifths, or the equivalent of about sixty class-hours, must be given to the major subject. The remaining two-fifths of the time, or the equivalent of about forty class-hours, must be devoted to a first minor or divided equally between two second minors. The particular courses in the major subject are selected with regard to the character of the thesis and with reference to the candidate's aim and preparation. The thesis must be the result of the sustained investigation of the original materials. Without undergraduate training in thesis-writing or research courses, it is difficult to take either the master's or the doctor's degree in the minimum period. Preferably minors may be selected in the departments of economics, history, or public law; but minors will be accepted in education, philosophy, or other departments, according to the needs of the candidate. In all cases a good knowledge of economics and history is required.

The facilities available for graduate study and research in both political science and sociology are excellent. The libraries of the University, city, state, and the State Historical Society afford the student access to an aggregate of about 236,000 volumes. The University Library contains the standard authorities and reference works on institutional history, social science, anthropology, ethnology, Roman law, historical jurisprudence, political economy, philosophy, government, polities, administration and statistics. It is especially strong in public documents and other material, source and secondary, for the investigation of problems in American government and administration. The State Library of 70,000 volumes supplements those of the University and the College of Law. It is one of the best law libraries in the west—rich in materials for a comparative study of government and legislation in the different states. In the Historical Society's collections and the public archives at the state Capitol there is accessible a mine of source material for investigating state and local government and administration in Nebraska. When these resources prove inadequate in special investigations, desired books will be purchased or temporarily borrowed from other libraries.

The location of the University at the state capital gives special opportunities for personal observation and study of the actual problems and practical workings of state and municipal legislation and administration.

The Nebraska Legislative and Municipal Reference Bureau is now by act of the Nebraska legislature of 1911 affiliated with this department. Its library of several thousand books, pamphlets and clippings is on the campus and students are invited to make large use thereof. Several scholarships in research work for this bureau, worth from \$25 upward, are open for capable students. University credit will be given for approved work under these scholarships.

Many valuable allied courses in economics, history, jurisprudence, and law are to be had in other departments.

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. American Government**—Introductory study of salient features in historical development, political structure, and actual workings of national, state, and local governments as parts of one whole. National government, first semester. Open to all students. Two lectures and one conference section each week. Three hours attendance. Three hours credit. First semester. Given in Summer Session, 1912. Aylsworth

**2. American Government**—Complement of Course 1. May be taken before Course 1. State and local governments in general. Special study of Nebraska, in comparison with other states, as an example of both federal and state relations, and state and local government. Open to all students. Two lectures and one conference section each week. Three hours attendance. Three hours credit. Second semester. Aylsworth

**3. Biography of Statesmanship**—From Roger Williams to Abraham Lincoln; character and deeds of twenty state-builders in America. Role of great men in social progress. Personality in social achievement. Open to all students except freshmen. Two hours attendance. Two hours credit. First semester. Howard

**4. Biography of Statesmanship**—3 continued. New registrations accepted. Second semester.

**5. Social Origins**—A study of the early life of mankind as revealed in monuments and remains, customs, institutions, and beliefs. A detailed treatment will be made of such subjects as the origin and growth of language, beginnings of writing, genesis and development of the arts of life, primitive science and education, matrimonial institutions, origins of gov-

ernment and the state, rise of property and monetary systems, early religion, magic, and mythology, early law and morality. Lectures accompanied by reference syllabus and illustrated with lantern slides. Three hours attendance. Three hours credit.

Webster

6. **Social Origins**—5 continued. Second semester.

7. **Modern Social Betterment Movements**—Social settlements; welfare work of large employers; efforts to protect the health of the public; housing problems; public parks, playgrounds and recreation centers; and other forms of modern social betterment activities will be studied. Three hours attendance. Three hours credit. First semester. Given in Summer Session, 1912.

Eaves

8. **Poverty and Dependence**—This course includes a general discussion of the causes of poverty and dependence and the principles of prevention and relief, with a more concrete study of modern methods of caring for the poor. State institutions for the care of dependents, the methods of work of charitable and religious societies, and emergency relief in times of great calamities will be among the subjects considered. Three hours attendance. Three hours credit. Second semester.

Eaves

9. **Municipal Government**—Organization of City Government in the United States and Europe. Growth of cities, the "home rule" movements, municipal suffrage, initiative and referendum, the council and executive, the municipal administrative system, the commission plan of city government, and the "short ballot." Open to all except freshmen. Two hours attendance. Two hours credit. First semester.

Aylsworth

10. **Municipal Government**—Functions of city administration in the United States and Europe. Origin and expansion of municipal functions, tendency toward municipal socialism, activities and problems connected with public health and safety, charities, education, recreation, public works, transportation, the "city beautiful," municipal ownership of public utilities, etc. Occasional stereopticon views. Open to all except freshmen. Two hours attendance. Two hours credit. Second semester. Aylsworth

12. **English Government and Politics**—A study of the British political system in comparison with our own. Growth of the English constitution, the cabinet-parliamentary organization of government, judicial system and procedure, legislative and administrative methods, the colonial system, political parties and party methods, present day issues of constitutional reform, financial, educational, and social-economic legislation. Open to all except freshmen. Two hours attendance. Two hours credit. Second semester.

Aylsworth

[13. **Nebraska History and Political Institutions**—Aboriginal inhabitants, their life, lands, customs and remains. Spanish, French and American exploration. Early trade, travel and settlement. Territorial organization, laws, and institutions. Statehood. The making of Nebraska Constitutions. Immigration, railroad building, industrial growth. The economic and political revolution. Religion, education and social life. Present problems and the New Nebraska. Bibliography of documentary and other sources of Nebraska history. Lantern slide views of historic scenes and persons. Open only to juniors and seniors; others by special arrangement. Two hours attendance. Two hours credit. First semester. *Given in 1913-1914.* Sheldon]

[14. **Nebraska History and Political Institutions**—13 continued. Second semester.]

FOR UNDERGRADUATES AND GRADUATES

15. **General Sociology**—Principles of social science. For third and fourth year students and graduates. Three hours attendance. Three hours credit. First semester. Howard

16. **Problems in Social Psychology and Ethics**—Chief psychic factors in social evolution. Laws of suggestion, mob-mind, and imitation; "craze," "fad," and sect; fashion, conventionality, custom, and tradition; leadership, genius, hero-worship, role of great men; social conflict, compromise, discussion, free speech, free press, public opinion; social sins, standards of private and social ethics. Theories of Le Bon, Tarde, Sidis, Ward, and Ross. For third year and more advanced students. Three hours attendance. Three hours credit. Second semester. Howard

17. **Primitive Religion**—An anthropological and sociological investigation of the evolution of religious beliefs and rites. Development of the ideas of spirits and gods; polytheism, dualism, and monotheism. Systems of religious belief: fetishism and idolatry; worship of natural objects, animals and plants; ancestor-worship. Magic in its connections with religion; demonology and devil-lore; notions of the soul and of the future life; origin and growth of religious ceremonies, priesthoods, and mythologies; sacrifice and prayer. Such topics as the classification of religions, connections between religion and morality, sociological factors in the development of religion, present trend of religious progress, etc., receive attention. Three hours attendance. Three hours credit. First semester. Webster

18. **Primitive Religion**—17 continued. Second semester.

**19. Labor Legislation**—The development of legislation for the regulation and protection of wage-workers in countries other than the United States. Particular attention will be given to the English labor laws and decisions. Two hours attendance. Two hours credit. First semester.

Eaves

**20. Labor Legislation**—The labor laws and decisions of the United States, with a more detailed study of the development of this legislation in Nebraska. Two hours attendance. Two hours credit. Second semester.

Eaves

**21. Socialization of Education**—This course will open with a brief summary of plans for the social and ethical training of the individual. The remainder of the time will be devoted to modern movements which are making the public schools more effective means for social progress. Medical inspection, vacation schools, recreation and lecture centers, industrial education, and the playground movement are among the topics considered. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1912.

Eaves

**24. Criminal Sociology**—Elements of criminology and penology. Particular attention will be given to modern methods of reform as expressed in the juvenile court, reform school, parole, the indeterminate sentence, and better forms of prison management. Two hours attendance. Two hours credit. Second semester.

Eaves

**25. Present Political Questions**—A course of lectures on problems of the day in national, state and city polities, including: Equal suffrage; direct legislation, proportional representation, direct primary, and nominating convention; short ballot; gerrymander; abuse of speaker's powers; conservation; spoils system in state institutions; parcels-post and the express monopoly; reform in courts and juries; reform in assessment and taxation; growth and meaning of the city; commission plan; municipal home-rule; the city boss; city planning, garden cities, the city-beautiful; public utilities; the liquor interest in polities. Open to third year and more advanced students. Two hours attendance. Two hours credit. First semester.

Howard

**26. Present Social Questions**—25 continued. Includes: Social sins and social service; infant mortality and child saving; race suicide and the death rate; vice-graft and white slavery; social hygiene and the "black plague"; sanitation and the housing problem; marriage, divorce, and sex education; social control of the domestic relations; race prejudice and potential race-equality; eugenics and potential genius; criminology and

prison reform; youthful delinquency and the juvenile court; industrial waste of life and employers' liability; venal journalism and tainted news; institutional church and the new puritanism; playgrounds, social centers, and public control of recreations. Open to third year and more advanced students. Two hours attendance. Two hours credit. Second semester.

Howard

[27. **Federal Institutions**—Federal government in the United States, Switzerland, Canada, Australia, South Africa, German Empire, and the Latin American Republics. Three hours attendance. Three hours credit. First semester. *Given in 1913-1914 and alternate years.* Howard]

28. **Federal Institutions**—27 continued. Second semester.

29. **National Administration**—A study of the principles and working machinery of the national system of administration and the methods of conducting the government's business; the administrative authority of the President; executive powers of the Senate; organization and work of the nine executive departments and the different commissions; principles controlling official relations. Designed to give a general knowledge of the scope and practical operation of the government service and to make clear the opportunities for college graduates in these branches of administration. Open to juniors and seniors and to others by consent of the instructor. Two hours attendance. Two hours credit. First semester. Aylsworth

30. **State Administration**—A study of administrative organization and activities in the different states; the governor and other state administrative officers; administrative significance of the "short ballot," the departments of education, health, insurance, public lands, etc., growth and influence of state boards and commissioners; state civil service reform; centralization in state administration; state control of county, township, and municipal administration; abuses and needed reforms in the administration of justice. Open to juniors and seniors and to others by consent of the instructor. Two hours attendance. Two hours credit. Second semester. Aylsworth

31. **Party Government**—Organization and working of political parties in the United States. Growth of party system; caueus and convention; direct primary; the party committee, "machine," and "boss"; legal control and responsibility of parties; campaign funds; origin and influence of third parties; relation of proportional representation and the initiative and referendum to party government; party control of legislation and administration. May be made a three hour course. Open to all except Freshmen. Two hours attendance. Two hours credit. First semester. *Given in Summer Session, 1912.* Aylsworth

**33. Practical Legislation: Nebraska Problems**—Introductory study of Nebraska's historical development, social, political, constitutional. Present problems in Nebraska law-making and administration. Subject matter and methods of legislation. Drafting and criticism of legislative bills and information briefs in co-operation with Nebraska Legislative Reference Department. Practice work at state house during legislative session, January to April of odd numbered years. Two hours attendance. Two hours credit. First semester. *Given in 1912-1913.* Credited in the College of Law.

Sheldon

**34. Practical Legislation: Nebraska Problems**—33 continued. Second semester.

**33a. Seminary on Nebraska History, Politics and Economics**—Combined research seminar of the departments of American History, Political Science and Sociology, and Political Economy. General subject for 1912-1913 will be the earlier periods of Nebraska; special assignments may be made upon any phase of Nebraska's development if desirable and convenient. Open to advanced undergraduates on consultation with instructors, and to graduates. Two hours attendance. Two hours credit. May be registered for in either of the three departments. Given every year. First semester.

Caldwell, Virtue, Persinger, Sheldon

**34a. Seminary on Nebraska History, Politics and Economics**—33a continued. Second semester.

**35. Folk-lore**—An examination of those phases of thought and action, which, inherited from prehistoric savagery, still abide among peoples of advanced culture. After preliminary lectures on the study and classification of folk-lore the subject is discussed under the following heads: 1. Folk-faith; the folk-lore of animism, magic and myth. 2. Folk literature: folk-tales, their diffusion and interpretation, systems of folk-tales, popular epics and romances, notably those of Celtic and Teutonic peoples; folk-songs, folk-plays and folk-sayings, including proverbs, riddles, rhymes, and fables. 3. Folk-custom: popular festivals, ceremonies, games and sports, symbols and superstitions. These topics are studied with special reference to their relation to the beginnings of religion, law, and morality. Lectures and reports. This course should prove of special importance to teachers and to others interested in the study of childhood. Two hours attendance. Two hours credit. First semester.

Webster

**36. Folk-lore**—35 continued. Second semester.

**39. Investigation of Social Problems**—This course aims to give train-

ing in the investigations of social problems and in the preparation for public use of the information gained. It is intended primarily for those who wish to prepare themselves for positions in connection with the social work of religious societies or of charitable or correctional institutions. Students who are already engaged in some form of social betterment activity and desire to make special studies connected with their work will be directed in the investigation of subjects of their own choice. The other members of the class will join in a co-operative study of the main topic selected for each semester's work. It is expected that participation in this extensive study will enable the students to become acquainted with the methods of collecting, organizing, interpreting, and presenting in good literary form the facts throwing light on selected problems connected with the social welfare of the state. Two hours attendance and field work. Two hours credit. First semester. Given in Sumner Session, 1912. Eaves

40. **Investigation of Social Problems**—39 continued. Second semester.

[43. **Theory of Statistics**—Principles and methods of statistical science. Exercises in the investigation of social and demographic problems. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.* Eaves]

PRIMARILY FOR GRADUATES

47. **Seminary on Bad Government**—Varieties, causes, and effects of institutional perversion. "Machine"; "boss" in city, state, and national politics; the "lobby," "milking bills," "strike legislation," "courthouse ring," gerrymander, spoils system, and other species of "graft" and graft-methods. Primarily for graduates. By permission a limited number of other specially qualified students may be admitted. One two-hour (evening) session each week. Two hours credit. First semester. *Given in 1912-1913 and alternate years.* Howard, Aylsworth

48. **Seminary on Colonies and Colonization**—World-politics. Sociological, economic, and political problems. Imperial problems of the United States in comparison with those of Great Britain, France, and Germany. For graduates and other specially qualified students. One two-hour (evening) session each week. Two hours credit. Second semester. *Given in 1912-1913 and alternate years.* Howard, Aylsworth

[49. **Seminary on Municipal Problems**—American and foreign municipal conditions compared; forces determining location, growth, structure, and economic basis of cities; comparison of urban and rural conditions with respect to sociological factors; aspects of bad government; public

ownership; "city beautiful," model "municipal program." For graduates and advanced undergraduates. One two-hour (evening) session each week. Two hours credit. First semester. *Given in 1913-1914 and alternate years.*

Howard, Aylsworth]

[50. **Seminary on the Family**—Mother-right, father-right, polygyny, polyandry, wife-capture, wife-purchase, theories as to genesis of matrimonial institutions; divorce, marriage, birth-rate, "race-suicide"; legislation and sex-education in the reform movement; intellectual and industrial liberation of woman; co-education; problems of marriage, the home, and the family. Primarily for graduates. By consent a limited number of other specially qualified students may be admitted. One two-hour (evening) session each week. Two hours credit. Second semester. *Given in 1913-1914 and alternate years.*

Howard, Aylsworth]

53. **Round Table in Early Society**—The study and informal discussion of one or more standard treatises in the field of social anthropology, such as Tylor's *Primitive Culture*, Westermarek's *Origin and Development of the Moral Ideas*, Spencer's *Principles of Sociology*, and Frazer's *Golden Bough*. Some attention is paid in this course to methods of anthropological research. One hour a week. One hour credit. First semester. Webster

54. **Round Table in Early Society**—53 continued. Second semester.

## RHETORIC

Head Professor Frye, Professor Fogg, Professor Buck, Assistant Professor Gass, Adjunct Professor Howell, Adjunct Professor McPhee, Mr. Davis

### GENERAL INFORMATION

It is the aim of the Department to further a systematic understanding of the principles of English composition and to cultivate correct habits of speaking and writing the English language. To this end all courses insist upon constant exercise in expression and upon frequent consultations with the instructors in addition to the regular class-room discussions and recitations. At the same time emphasis is laid, as far as possible, upon outside reading and study in illustration of the methods, and in preparation of the materials, of rhetorical practice.

### ELECTION OF COURSES

Before the student proceeds to elective work, he must have completed courses 1 and 2 as a prerequisite. A student electing advanced work in rhetoric will find it advantageous to carry courses in English literature in connection, if he is not doing so already. Students intending to elect work

in debate should take courses 13 and 14 in their sophomore year. Such students are also recommended to acquaint themselves with those subjects from which questions for debate are usually drawn—American history, European history, jurisprudence and public law, philosophy, political economy and commerce, and political science and sociology.

#### UNIVERSITY TEACHERS' CERTIFICATE

**MAJOR.** On account of the necessity for common preparation in Rhetoric and English Literature, no major is open in either of these subjects singly. A major in Rhetoric and a major also in English Literature will be granted to those who secure credit for twenty-eight hours in the courses following:

Rhetoric—Courses 3 and 4, four hours; 7 and 8, six hours.

English Literature—Courses 1 and 2, six hours; 11 and 12, four hours; 17 and 18, eight hours.

It is necessary for students offering the majors in Rhetoric and in English Literature to include a minor of twelve hours in some allied subject.

**MINOR.** A double minor in Rhetoric and English Literature will be granted to those who secure credit for eighteen hours in the courses following: Rhetoric—Courses 7 and 8, six hours. English Literature—Courses 11 and 12, four hours; 17 and 18, eight hours.

Candidates who intend to teach debate may make arrangements to substitute courses 13 and 14 for 7 and 8. Candidates should notify the departments of their candidacy by the beginning of their sophomore year.

#### GRADUATE WORK

The department offers two lines of graduate work—Composition: On application students may arrange for rhetorical work in connection with English literature leading to the Master's degree; Criticism: Students may also arrange for critical work in two or more languages, leading to the Master's or Doctor's degree.

#### COURSES PRIMARILY FOR UNDERGRADUATES

##### REQUIRED

**1. Rhetoric and English Composition**—Instruction and practice in elementary composition. Themes, conferences. Two hours attendance. Two hours credit. First and second semesters. Given in Summer Session, 1912.

Frye, Buck, Gass, McPhee, Davis

**2. Rhetoric and English Composition**—1 continued. First and second semesters.

Courses 1 and 2 are required of all freshmen in the College of Arts and Sciences, the College of Agriculture, and the College of Engineering.

5. **English Composition**—Expository writing and kindred forms of expression. Three hours attendance. Three hours credit. First semester.

Frye, McPhee

6. **English Composition**—5 continued. Second semester.

Courses 5 and 6 are required of all sophomores in the College of Agriculture and may be elected, in place of 3 and 4, by students wishing an additional hour's work.

#### ELECTIVE

3. **English Composition**—1, 2 continued. Practice in general expression. Intended to give the student some control over his own thought and some facility in its presentation. Two hours attendance. Two hours credit. First semester.

Frye, McPhee

4. **English Composition**—3 continued. Second semester.

23. **Newspaper Writing**—News-story and editorial writing. Two hours attendance. Two hours credit. First semester.

Gass

24. **Magazine Writing**—23 continued. Magazine exposition. Second semester.

25. **Narration**—Practical course in prose narrative writing. Admission by consent of instructor. Two hours attendance. Two hours credit. First semester.

Buck

26. **Narration**—25 continued with special attention to the short story. Second semester.

#### COURSES FOR UNDERGRADUATES AND GRADUATES

7. **English Composition**—Advanced course. Theory of English composition. Studies in the organization of literary material. Daily and fortnightly themes. Two hours attendance. Three hours credit. First semester.

Frye

8. **English Composition**—7 continued. Critical studies in style and structure. Readings and reports to illustrate the principles of English prose literature. Daily and fortnightly themes. Two hours attendance. Three hours credit. Second semester.

Frye

9. **Writers' Course**—Intended for advanced students who wish to improve their writing in connection with some particular subject of study or inquiry. No classes; themes, criticism and conferences. The student is expected to propose a subject, to prepare a theme, and to submit it to the instructor for criticism and advice with a view to revision and improvement. Two hours credit. First semester.

Frye

10. **Writers' Course**—9 continued. Second semester.

11. **The History of Rhetoric**—A reading course in the history of rhetorical theory. Two hours attendance. Two hours credit. First semester.

Gass

13. **Argumentation**—1, 2 continued. Principles of argumentative composition. Text-book, lectures frequent writing, conferences; gathering of material; analysis; evidence; structure—brief-drawing; ethics of discussion. Briefs and arguments on questions of general or college interest or from the student's work in other departments. In the second semester a thesis, for which the training in the first semester directly prepares, may be substituted. Two hours attendance. Three hours credit. First semester.

Fogg and Assistants

14. **Argumentation**—13 continued. Second semester.

15. **Debate**—Introductory course. Principles of argumentation practically applied to oral discussion of economic, ethical, historical, political, and sociological questions. Weekly debates, preceded by briefs, in which each member takes part three times as principal speaker. The debates are criticised before the entire class. Open to students who have completed course 13 with credit and to others by special consent. Membership limited to twenty. Two consecutive hours attendance. Three hours credit. First semester. Fogg, Caldwell, Fling, Howard, and Le Rossignol

16. **Debate**—15 continued. Open to students who have completed 13 or 15 and to others by consent of the instructor. Second semester.

17. **Debate**—Advanced course. Further training in investigation and oral discussion. Debates. Each member takes part three times as principal speaker. Conducted as course 15. Open to students who have completed 13 and 15 or 16 and to others by consent of the instructor. Membership limited to sixteen. Admission by consent of instructor. Two consecutive hours attendance. Three hours credit. First semester.

Fogg, Caldwell, Fling, Howard, Le Rossignol

18. **Debate**—17 continued. Second semester.

19. **Public Address (Exclusive of Debate)**—Practical training in the composition of the public address not strictly argumentative. Practice in writing for definite audiences, the occasional address. Emphasis on persuasion and literary form, supplementing the course in argumentation and debate. Burke, Erskine, Webster, Lincoln, Phillips, Beecher, Curtis, and

contemporary public speakers. Readings; conferences. To have taken or to be taking course 13 is advantageous. Two or three hours attendance. Three hours credit. First semester.

Fogg

20. **Public Address (Exclusive of Debate)**—19 continued. Second semester.

22. **Debate**—Second advance course. Training of a more systematic kind. Original research. Open only to those students who have attained some excellence in argumentation and debate. Membership limited to twenty. Attendance to be arranged. Credit varies with the work done. First semester.

Fogg

29. **The Nineteenth Century Essay**—Principles of English composition as illustrated by selected works of masters of modern English prose—Jeffrey, Hazlitt, Macaulay, Lamb, De Quincey, Carlyle, Ruskin, Arnold, Newman, and Stevenson. Frequent themes; personal criticism. Prerequisite: Courses 1, 2. Two hours attendance. Two hours credit. First semester.

Fogg

30. **The Nineteenth Century Essay**—29 continued. Second semester.

32. **The Teaching of Rhetoric and English Composition**—Teachers' Course. Aims and methods of secondary-school instruction in rhetoric and English composition. General principles of composition. Discussion of text-books; themes. The management of theme courses. Practice in correcting themes. Open to Juniors, Seniors, and graduates. One hour lecture; three hours reading and observation. Two hours credit. Second semester. Given in Summer Session, 1912.

Frye, Fogg

33. **Comparative Criticism**—A comparative study of the leading social ideas in the works of representative writers in France, Germany, and England during the latter eighteenth and early nineteenth century. Frequent reports and conferences. Intended to give the student some notion of the social ideas in literature as a foundation for its critical appreciation. A reading knowledge of French is indispensable. Admission by consent of the instructor. Two hours lectures. Two hours credit.

Buck

34. **Comparative Criticism**—A comparative study of the drama—Greek, Spanish, French, and English. Mainly a reading course, controlled by reports, critiques, and lectures. Intended to give the students some sort of foundation for the critical appreciation of literature. A reading knowledge of French is indispensable. Admission by consent of the instructor. Two hours attendance. Three or four hours credit.

Frye

**Reading and Elocution**

Adjunct Professor Howell, Mr. Davis

The following courses provide training in oral English:

**COURSES PRIMARILY FOR UNDERGRADUATES**

**35. Reading and Speaking**—The aim is to secure naturalness and sincerity in reading and speaking, to preserve the individuality of the student, and to obtain freedom from self-consciousness. Special attention to voice culture, correct articulation and definite gesture. Analysis and vocal interpretation of selections from orators, essayists, dramatists, and poets. Class recitals. Three hours attendance. Two hours credit. First semester.

Howell

**36. Reading and Speaking**—35 continued. Prerequisite, course 35. Second semester.

[**37. Oral Interpretation**—Critical study of Shakespearean and modern plays. Prerequisite: Courses 35 and 36. Three hours attendance. Two hours credit. First semester. *Not given in 1912-1913.* Howell]

[**38. Oral Interpretation**—37 continued. Second semester. *Not given in 1912-1913.]*

(Courses 37 and 38 alternate with 37a and 38a.)

**37a. Oral Interpretation**—Advanced study of voice culture, impersonation, pantomime, and gesture. Interpretation of various kinds of dramatic literature—prose and poetry. Special attention to the oration and critical study of *Hamlet*, *As You Like It*, *The Rivals*, and also of some modern play. Analysis of plot, character, and incidents. Dramatic presentation of principal scenes before the class. Prerequisite: Courses 35 and 36. Three hours attendance. Two hours credit. First semester. Howell

**38a. Oral Interpretation**—37a continued. Second semester.

(Courses 37a and 38a alternate with 37 and 38.)

**39. Reading and Interpretation (Advanced Course)**—A study of the oral interpretation of masterpieces of literature with the aim of acquiring a repertoire. Lectures on vocal technique. Each member of the class is required to interpret various kinds of selections for a program—one strongly dramatic narrative selection, one humorous, and one scene from the classic or modern drama—which material is chosen to give the strongest personal development and also to serve as a repertoire. Criticism on delivery of after-dinner and other forms of extemporaneous address. Membership limited to fifteen. Admission by consent of instructor. Public recitals. Two hours attendance. Two hours credit. First semester. Howell

40. **Reading and Interpretation (Advanced Course)**—39 continued  
Second semester.

41. **Public Speaking**—Intended especially for students who wish to prepare themselves for public speaking—debate and other forms of public address. Its object is to assist the student in acquiring an effective oral style—clear, direct, simple. Text-book, individual drill. Special attention to voice and gesture. Practice in various forms of extemporaneous speaking. Critical work in the delivery of one original oration each semester. Membership limited to fifteen. Admission by consent of the instructor. Three hours attendance. Two hours credit. First semester. Howell, Davis

42. **Public Speaking**—41 continued. Second semester.

43. **Teachers' Course**—Special course for teachers in city schools and for students in the Teachers College. Intended to strengthen the teaching of reading by the formation of an intelligent reading habit. Analysis of selections from the best literature and the application of principles of interpretation to class-room and platform work. Special attention to articulation, pronunciation, and voice-development. Model classes; individual criticism. Discussion of programs and of supplementary literature for class-room use. Two hours attendance. Two hours credit. First semester.

Howell

44. **Teachers' Course**—43 continued. Second semester.

## ROMAN HISTORY AND LITERATURE

Head Professor Barber, Assistant Professor Sanford, Adjunct Professor Hunter, Miss Graham

The instruction aims to impart an understanding of the principles of the language through a study of its development and wide reading in the literature. The intention is to lead the student to build up his grammatical knowledge and to master the laws of the language from his own reading.

The instruction is not confined to linguistic and literary lines solely. The character and institutions of the Roman people are also studied with the view of leading students to an understanding of ancient Roman civilization and its bearing on modern life.

The required courses for the University Teachers' Certificate in Latin as a major are, 1, 2, 3, 4, 5, 6, 7 and 8. No minor is given. Equivalent work in the department may be substituted for 5 and 6 upon consultation with the head. The above courses must be preceded by the four years high school preparation, including composition (one period per week during the second

and third years) and a thorough drill in the grammar. Students found to be defective in preparation may be required to take courses E and F in addition to the above.

In connection with this department is maintained a Latin Club of advanced students elected on the basis of scholarship. Monthly meetings are held devoted to the reading of papers, choice passages of Roman literature, discussions, and Latin conversation. Eighty per cent of the dues are set aside for the purchase of some permanent memorial for the department.

#### MASTER OF ARTS

Candidates for advanced degrees must have completed courses 1, 2, 3, and 4, or their equivalents. Graduate study should include courses 5, 6, 11, and 12, after which subjects may be selected from any courses open to graduates. The basis of requirement is as follows:

Second Minor: Three hours of class-room work for one year.

First Minor: Six hours of class-room work for one year.

Major: Six hours of class-room work and the equivalent for four hours in the preparation of a thesis.

Complete Course: Nine hours of class-room work and the equivalent of six hours in the preparation of a thesis.

These may be prepared on any of the following subjects: the satirists, the Roman drama, Roman history, Roman oratory, elegiac poetry, poetry of the empire, prose of the republic, prose of the empire, sermo plebeius, patristic literature. By special arrangement a thesis may be prepared on some question of syntax covering the whole literature.

#### COURSES FOR UNDERGRADUATES

To enter course A the student must have had four books of Caesar with Latin composition. To enter course 1 the student must have completed courses A, B, C, and D.

Courses A and B give the student two preparatory credit "points" or six hours of college credit. Courses C and D two preparatory credit "points" and two hours of college credit, or ten hours of college credit.

A. **Cicero**—Three orations; Latin composition, drill in syntax. In written exercises the long vowels are marked. Three hours attendance. Three hours credit. First semester. Graham

B. **Cicero**—A continued. Second semester.

C. **Virgil**—Three books of the *Aeneid*. Drill in prosody, case and verb construction, and poetic expressions. Five hours attendance. Five hours credit. First semester. Hunter

D. **Vergil**—Three books of the *Aeneid*. Ovid's *Metamorphoses*. Two books. Drill as in C. Metrical reading of hexameters at sight. Practical examination of tense uses. Literary art of Vergil. Five hours attendance. Five hours credit. Second semester. Hunter

E. **Practical Course in Latin Syntax**—Practical drill in the principles of Latin syntax, preparatory to rapid and accurate reading. Two hours attendance. Two hours credit. Hunter

F. **Practical Course in Latin Syntax**—E continued. Special practice in translating long paragraphs of connected discourse.

1. **Cicero**—*De Senectute* with Latin composition. Drill in the syntax of moods and tenses; special attention to the classification of subordinate clauses. Livy begun. Five hours attendance. Five hours credit. First semester. Barber, Hunter

2. **Livy**—Books XXI and XXII. Practice in sight reading. Study of moods and tenses and subordinate clauses continued. Five hours attendance. Five hours credit. Second semester. Barber, Hunter

3. **Horace**—Selected Odes, Epodes, Satires, Epistles and *Ars Poetica*. A few passages memorized; occasional summaries; a brief view of social life in Horace's time; prosody. Four hours attendance. Four hours credit. First semester. Sanford

4. **Plautus and Terence**—*Captivi* and *Adelphoe*. A brief introduction to Roman drama; prosody. Tacitus' *Agricola* and *Germania*. The *Germania* studied for its bearing on the customs and laws of modern German peoples. Four hours attendance. Four hours credit. Second semester. Sanford

43. **Teachers' Course**—Lectures on methods of teaching Latin and on subject matter often overlooked. Model reading of sub-freshman authors. Courses 43 and 44 may be taken in lieu of two hours in general methods in the department of Education. One hour attendance. One hour credit. First semester. Graham

44. **Teachers' Course**—43 continued. Second semester.

49. **Roman Oratory**—General survey of the development of Roman oratory from the earliest period. Detailed study of the structure of speeches, methods of delivery, and effectiveness. Types of oratory employed at funerals, before armies, in the senate and forum. Lectures and reports. Two hours attendance. Two hours credit. First semester. Hunter

50. **Roman Oratory**—49 continued. Special reference to oratory in the last days of the republic. Second semester.

## COURSES FOR UNDERGRADUATES AND GRADUATES

5. **Suetonius**—Lives of Julius and Augustus Caesar. Sight reading. Talks upon Roman life. Papers by the class. Two hours attendance. Two hours credit. First semester. Barber
6. **Pliny and Juvenal**—Selected letters. Selected satires. Reading from hearing. Collateral readings on Roman social life. Two hours attendance. Two hours credit. Second semester. Barber
7. **Roman Archaeology**—Following are some of the subjects treated: Amphitheaters, aqueducts, arches, architecture, basilicas, bath houses, building materials, catacombs, circi, columns, fortifications, fora, methods of building, ruins, temples, theatres, topography, walls, war implements. Lectures illustrated with lantern slides. Papers are required of students on special topics. One hour attendance. One hour credit. First semester. Barber
8. **Roman Antiquities**—Public and private life of the Romans; dress and ornaments, household furniture, kitchen utensils, museums, manuscripts, pottery and vases, private houses, public buildings, sculpture, Vesuvius, Pompeii and Herculaneum, wall decorations. Lectures illustrated with lantern slides. Papers as in course 7. One hour attendance. One hour credit. Second semester. Barber
9. **Cicero's Letters**—Selections arranged to throw light upon life and time of Cicero. Lectures on the style of the letters. Two hours attendance. Two hours credit. First semester. Sanford
- [10. **Quintilian**—Book X and selections from Book XII. Books I and II assigned for collateral reading as showing the educational methods in the first century A. D. Two hours attendance. Two hours credit. Second semester. *Not given in 1912-1913.* Sanford]
11. **Composition**—A brief, illustrated review of the syntax of noun and verb, followed by practice in connected Latin writing. One hour attendance. One hour credit. First semester. Sanford
12. **Composition**—11 continued. Second semester.
13. **Latin Grammar**—An elementary course in historical development of Latin moods. Tenses. Pronunciation. Lectures. One hour attendance. One hour credit. First semester. Barber
14. **Latin Grammar**—13 continued. Second semester.
- [15. **Plautus and Terence**—Course in rapid reading of seven or eight plays. Lectures on history of Roman drama. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.* Sanford]

16. **Cicero**—Tusculan Disputations, Book I, studied with reference to Roman ideals concerning immortality. Selections from Lucretius, Seneca, and Buecheler's *Carmina Latina Epigraphica*. Two hours attendance. Two hours credit. Second semester.

Sanford

17. **Roman History**—From the earliest times through the early empire. Primarily for those preparing to teach Latin in secondary schools. Open to juniors and seniors only. Text-book. Lectures. Two hours attendance. Two hours credit. First semester.

Sanford

18. **History of Roman Literature**—Lectures, with selections from representative authors. Open to juniors and seniors only. Two hours attendance. Two hours credit. Second semester.

Sanford

21. **Latin Morphology**—Latin in its relation to the other languages of the Aryan group. Sounds and their combinations, accent, and principles of word formation and derivation. Survey of the great laws of linguistic growth and change as illustrated in Latin. Lectures and readings. One hour attendance. One hour credit. First semester.

Hunter

22. **Latin Morphology**—21 continued with historical study of the development of Latin. Second semester.

[27. **Vergil**—Selections from the *Elegues*, *Georgies*, and Books VII-XII of the *Aeneid*, rapid reading course, of particular interest to prospective teachers of Latin. Special topics assigned for investigation by members of the class. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.*

Sanford]

[28. **Ovid**—Selections from the *Heroides*, *Amores*, *Fasti*, *Metamorphoses*, and *Tristia*, a companion course to 27. Two hours attendance. Two hours credit. Second semester. *Not given in 1912-1913.*

Sanford]

29. **Tacitus**—Selections from the Annals and Histories, treated as a basis for the history of the Empire from 14 to 70 A. D. Two hours attendance. Two hours credit. First semester.

Sanford

30. **Martial**—Selected Epigrams, in illustration of Roman life under the early Empire. Two hours attendance. Two hours credit. Second semester.

Sanford

[31. **The Elegiac Poets**—Selections from Catullus and Tibullus. Lectures on the history of Roman elegiac poetry. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.*

Sanford]

[32. **The Elegiac Poets**—Selections from Propertius and Ovid. 31 continued. Second semester. *Not given in 1912-1913.]*

[33. **Cena Trimalchionis**—This social novel studied with reference to Romance languages, but especially to popular speech (*sermo plebeius*) and customs of the time. One hour attendance. One hour credit. First semester. *Not given in 1912-1913.* Sanford]

[34. **Cena Trimalchionis**—33 continued. Second semester. *Not given in 1912-1913.]*

[35. **Roman Religion and Mythology**—A lecture course. Occasional papers and reports by members of the class. One hour attendance. One hour credit. First semester. *Not given in 1912-1913.* Sanford]

[36. **Roman Religion and Mythology**—35 continued. Second semester. *Not given in 1912-1913.]*

37. **Roman Law**—Reading of selections from the public and private law of the Romans, accompanied by lectures. One hour attendance. One hour credit. First semester. Sanford

38. **Roman Law**—37 continued. Second semester.

#### COURSES PRIMARILY FOR GRADUATES

[19. **Lucretius**—Books I and III, with an examination into modal uses of the remaining book. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.* Barber]

[20. **Cicero**—*de Oratore*, Book I, with an examination into modal uses in Cicero's essays. Two hours attendance. Two hours credit. Second semester. *Not given in 1912-1913.* Barber]

[23. **Latin Palaeography**—A study of Latin manuscripts. One hour attendance. One hour credit. *Not given in 1912-1913.* Sanford]

[24. **Roman Epigraphy**—Study of select inscriptions. One hour attendance. One hour credit. Second semester. *Not given in 1912-1913.* Sanford]

[25. **Seminary**—Special study of the syntax of the verb. Topics are assigned to students to investigate through the whole range of the literature. Two hours attendance. Two hours credit. First semester. *Not given in 1912-1913.* Barber]

[26. **Seminary**—25 continued. Second semester. *Not given in 1912-1913.]*

[45. **The Personal and National Characteristics of the Roman People**—Lectures. Papers by the students. One hour attendance. One hour credit. First semester. *Not given in 1912-1913.* Barber]

[46. **The Personal and National Characteristics of the Roman People**—45 continued. Second semester. *Not given in 1912-1913.]*

**ROMANCE LANGUAGES AND LITERATURES**

Professor Conklin, Assistant Professor Korsmeyer, Adjunct Professor Reese, Assistant Andra, Assistant Swift

General undergraduate work enables the student to read modern and classical French with critical accuracy and appreciation.

Special undergraduate work provides for extended literary study in French, for practical drill in writing and speaking French and for the study of Italian and Spanish. Advanced students may, with the consent of the head of the department, avail themselves of the instruction offered in the Graduate College.

For the University Teachers' Certificate the following courses, or equivalents, are required: Major, courses 1 to 12 inclusive, and 51, 52; minor, courses 1 to 12 inclusive. Four semesters in the high school or three semesters in the University (Courses 1, 2, 3—15 hours) before specialization is really begun.

**REQUIREMENTS FOR MASTER OF ARTS**

For graduate study in Romance languages at least three years of French are necessary. For the courses in the following groups equivalents are accepted:

Philological Group—Second Minor: Old French, historical French grammar, Italian, or Spanish. First Minor: Requirements for second minor and further study of Old French and of Italian or Spanish. Major: Old French, historical French grammar, Italian, and Spanish, advanced course in either Italian or Spanish, Provençal, Romance phonetics.

Literary Group—Second Minor: Studies of different periods in French literature, Italian, or Spanish. First Minor: Studies of different periods in French literature, Italian, and Spanish, or advanced course in Italian or Spanish, Old French. Major: French writing and speaking; studies of different periods in French literature; Italian and Spanish, advanced course in either Italian or Spanish; Old French, historical French grammar, special readings.

**COURSES PRIMARILY FOR UNDERGRADUATES****French**

1. **French**—Introductory course. Five hours attendance. Five hours credit. First semester. Conklin, Korsmeyer, Reese

2. **French**—1 continued. Second semester.

3. **French**—Second-year course. Advanced reading. Three hours attendance. Three hours credit. First semester. Conklin, Korsmeyer, Reese

4. **French**—3 continued. Second semester.
5. **French Writing and Speaking**—Must be taken with 3. Two hours attendance. Two hours credit. First semester. Conklin, Korsmeyer
6. **French Writing and Speaking**—5 continued. Must be taken with 4. Second semester.
7. **Classical Authors**—One hour attendance. One hour credit. First semester. Reese
8. **Classical Authors**—7 continued. Second semester.
9. **Romantic School**—Two hours attendance. Two hours credit. First semester. Korsmeyer
10. **Romantic School**—9 continued. Second semester.
11. **French Writing and Speaking**—Advanced course (Teachers' course). Two hours attendance. Two hours credit. First semester. Conklin
12. **French Writing and Speaking**—11 continued. Second semester.
- \*13. **Modern French Drama and Novel**—One hour credit. First semester. Conklin
- \*14. **Modern French Drama and Novel**—13 continued. Second semester.

### Spanish

31. **Spanish**—Introductory course. Five hours attendance. Five hours credit. First semester. Conklin, Reese
32. **Spanish**—31 continued. Second semester.
33. **Spanish**—Second year course. Three hours attendance. Three hours credit. First semester. Conklin, Reese
34. **Spanish**—33 continued. Second semester.
35. **Spanish**—Third year. Two hours attendance. Two hours credit. First semester.
36. **Spanish**—35 continued. Second semester.

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\*Courses 13 and 14 interview work. Open to strong students with two years French. Consultation with head of the department before registration.

## COURSES FOR UNDERGRADUATES AND GRADUATES

**French**

**15. Studies of Different Periods in French Literature**—Prerequisite: Courses 7, 8, 9, 10, or equivalent work. Two hours attendance. Two hours credit. First semester. Conklin

**16. Studies of Different Periods in French Literature**—15 continued. Second semester.

**17. French Literature**—16 continued. First semester.

**18. French Literature**—17 continued. Second semester.

**Italian**

**41. Italian**—Introductory course. Three hours attendance. Three hours credit. First semester. Korsmeyer

**42. Italian**—41 continued. Second semester.

**43. Italian**—Second-year course. Two hours attendance. Two hours credit. First semester. Korsmeyer

**44. Italian**—43 continued. Second semester.

## COURSES PRIMARILY FOR GRADUATES

**French**

**51. Old French**—Grammar and reading. Two hours attendance. Two hours credit. First semester. Conklin

**52. Old French**—51 continued. Second semester.

**55. French Philology**—Historical French grammar, phonetical analysis of French words. One hour attendance. One hour credit. First semester. Conklin

**56. French Philology**—55 continued. Second semester.

**Provencal**

**61. Grammar, Reading, and Analysis**—One hour attendance. One hour credit. First semester. Conklin

**62. Provencal Literature**—Second semester.

**Romance Phonetics**

**65. Comparative Phonetics of Italian, Spanish, French and Provencal**—Lectures. One hour attendance. One hour credit. First semester. Conklin

**66. Comparative Phonetics of Italian, Spanish, French and Provençal**—65 continued. Second semester.

### SANSKRIT

Professor Lees

**1. Beginners' Course**—Inflections and conjugations. Whitney's Sanskrit Grammar and interpretation of an easy text. Two hours attendance. Three hours credit. First semester. Lees

**2. Elementary Sanskrit**—Selected readings from the Nala and the Hitopadeca as given in Lanman's Sanskrit Reader. Two hours attendance. Three hours credit. Second semester. Lees

These courses in elementary Sanskrit are designed primarily for graduate students, but they may also be profitably pursued by advanced and aspiring students in English, German, Greek, French, and Latin. The aim of the first year's work is to give the student such a knowledge of Sanskrit forms and elementary syntactical structure as to assist greatly in the comprehension and mastery of similar phenomena in all the European languages.

### COMPARATIVE PHILOLOGY

**3. The Elements of Linguistic Science**—Comparative philology of the more familiar divisions of the Indo-European family of languages. Lectures and discussions. One hour attendance. One hour credit. First semester. Lees

**4. The Elements of Linguistic Science**—3 continued. Second semester.

### DEPARTMENT OF SLAVONIC

Adjunct Professor Šárka Hrbkova

**1. Beginners' Course**—Grammar, vocabulary, exercises, word structure. Selected readings from Reader and "Malá Slovesnost." Five hours attendance. Five hours credit. First semester.

**2. Beginners' Course**—1 continued. Grammar continued. Conversation. "Staré Pověsti" by Jirásek, "Babička" by Božena Němcová, "Pod Dutým Stromem" by Hálek. Five hours attendance. Five hours credit. Second semester.

**3. Bohemian Literature**—Reading and interpretation of Erben's "Kytice Pověsti," Neruda's "Povídky," Havlíček's "Tyrolské Elegie" and "Epigramy." Three hours attendance. Three hours credit. First semester.

4. **Bohemian Literature**—3 continued. Reading and interpretation of Jirásek's "Filosofská Historie," Hálek's "Básně," "Divá Bárá" by Němcová. Three hours attendance. Three hours credit. Second semester.

5. **Bohemian Literature**—Svatopluk Čech's "Jestřáb contra Hrdlička," "Písně Otroka," "Lešetínský Kovář," Kollár's "Slávy Dcera." One to three hours attendance. One to three hours credit. First semester.

6. **Bohemian Literature**—5 continued. Study of dramatic writings of Tyl, Klicpera, Šubert, Šamberk, Vrchlický. One to three hours attendance. One to three hours credit. Second semester.

7. **Short Story Course**—Readings and reports. Authors considered: Čech, Machar, Klecanda, Němcová, Třebízký, Neruda. Two hours attendance. Two hours credit. First semester.

8. **Short Story Course**—7 continued. Modern Bohemian, Russian, and Polish writers. The structure of the short story. Composition. Two hours attendance. Two hours credit. Second semester.

9. **Conversation**—Class-room exercises in Bohemian. Idiomatic and colloquial expressions. Review of grammar. Prerequisite: Bohemian 1 and 2 or satisfactory equivalent. Two hours attendance. Two hours credit. First semester.

10. **Conversation**—9 continued. Practice in every-day Bohemian. Composition. Two hours attendance. Two hours credit. Second semester.

11. **Slavic Life**—A lecture course in English on Slavic Life. Illustrated by 700 lantern slides covering subjects of history, customs, homes, occupations, costumes, amusements, child life, architecture, development of the arts and industries and growth of social and educational ideals among the Slavic nations. One hour attendance. One hour credit. First and second semesters.

12. **Immigration**—A general view of the problem of the immigrant with special reference to the Slav. Sources and causes of emigration, racial, economic, political and social effects of immigration; assimilative forces at work; distribution of immigrants; character of recent immigration; restrictive and non-restrictive measures; proposed solutions of the problem. Two hours attendance. Two hours credit. First and second semesters.

13-14. **History of Bohemian Literature**—From the earliest times to the modern period. Based on Lutzow's "History of Bohemian Literature," Wratislaw's "The Native Literature of Bohemia in the Fourteenth Century," Pypin and Spasović's "Historie Literatur Slovanských," Vlček's "Dějiny Poesie České," "Literatura Česká Devatenáctého Století," Tieftrunk, Jungmann, Morfil, Ninger. Two hours attendance.

Two hours credit. First and second semesters. (Unless desired by a sufficient number of advanced students, this course will not be given.)

15. **Teachers' Course**—A special course in methods of teaching Bohemian. Assigned readings, reports, lectures, model teaching. A thorough review of the grammar and general summary of literature. Preparation of outlines for teaching. A survey of text-books used in teaching Bohemian. Suggestive helps and plans. Prerequisite: satisfactory work in Courses 1, 2, 3, 4, 9, 10, 11 or their equivalent. Two hours attendance. Two hours credit. First semester.

16. **Teachers' Course**—15 continued. Two hours attendance. Two hours credit. Second semester.

## ZOOLOGY

Head Professor Wolcott, Professor Powers, Associate Professor Barker, Mr. Mitchell, and Assistants; Professor Willard

### GENERAL INFORMATION

Besides a lecture room and the private rooms used by members of the staff, the department possesses a large general laboratory, laboratories for advanced and research work, quarters for housing living animals, a library, and a well stocked storeroom. The usual equipment is at hand, including microscopes and projection lantern, slides, charts, models, and demonstration material of various kinds. Worthy of note is a large series of marine forms from the Naples Zoological Station supplemented by other marine and fresh-water material, a set of the Thiersch injected tissues, models by Ziegler, Dahlgren, and others, and a large collection of lantern slides and specimens illustrating parasitism, variation and other biological phenomena.

Students entering upon the study of zoology should begin with courses 1 and 2, or A, of which at least 1 is required for admission to all subsequent courses, except 21 and 22 and 36. Students looking forward to the study of medicine have offered to them, after completing courses 1 and 2, course 3 or 15, 6, 7, and as electives 17 and 18. Forestry students may elect 14, after taking 1. Others desiring to do so, and with sufficient reason, may, with the consent of the instructor, follow 1 by 12. Those expecting to teach will find it advantageous to elect 1 and 2, or A and 33, followed or accompanied by 31, or 36; the requirements for the University Teachers' Certificate in this department being: for a major, courses 1, 2, 3, 6 or 7, 21, 22, and 33, and for a minor, courses 1, 2, 3, and 33 (12 hours), or 1, 2, 3,

6, and 33 (16 hours). Those who plan to specialize in zoology, after completing courses 1 and 2, should take 3 and 6, and then may select further work from the several lines open to them.

Attention is called to the opportunities for preparation in lines leading to professional work in zoology. A course in economic zoology and entomology is offered which fits the student for experiment station work, and government work in entomology; by slight modification and the proper use of electives the course furnishes suitable preparation for the work of the U. S. Biological Survey. The student may also, by the election of courses in parasitology, animal pathology, etc., readily adapt his preparation to the needs of the work in the Bureau of Animal Industry, and by the selection of certain courses chosen with the advice of the head of the department, prepare himself for work in the new laboratories of the Bureau of Fisheries, now being established. In all these lines there is a steady demand for properly trained men at good salaries. Students considering entering upon any of these lines of work are urged to consult freely with the head of the department.

Attention is particularly directed to the zoological work carried on under the separate departments of Entomology and of Histology and Embryology, the work of which supplements that of this department and must be considered by the special student who desires a well rounded course. Work in Biometry is offered in connection with the department of Mathematics.

The ability to read German and French is of great advantage in all courses in the department and is required in all graduate work.

#### FACILITIES FOR GRADUATE STUDY

Separate rooms are provided for research students, and there are also available a photographic room equipped with the necessary apparatus, an aquarium room abundantly provided with tanks and running water, and a live house for the keeping of larger animals. The supply of apparatus includes apochromatic lenses, Zeiss and Leitz microscopes, Reinholt-Giltay, Minot and Thoma microtomes, Lillie and Naples paraffin baths, and all necessary subsidiary apparatus, including that for drawing and photographic work.

The department possesses alcoholic material which offers attractive opportunities for investigation along certain lines. Especially noteworthy is a very large collection of mites, a comparatively unworked group of great economic and scientific importance. There is a rapidly growing collection of parasitological material, affording good opportunities for investigation in that field.

A specialty is made of the maintenance in the aquarium room of permanent colonies of protozoa and a number of the lower invertebrates under various environmental conditions, which permits of extensive study of life histories and variation in these forms.

The library, adjacent to the laboratory and containing approximately 2,500 volumes, is especially strong in sets of publications of scientific societies and institutions and of zoological periodicals, and is supplemented by the private libraries of members of the staff which are accessible to research students working under their direction. The general University Library and the libraries of the College of Medicine, of the Nebraska Experiment Station, and of allied departments, furnish many valuable series in addition.

The publications of the departmental staff and of graduate students are included in a series entitled "Studies from the Zoological Laboratory," of which five volumes have been completed, while of volume 6 numbers 101 to 104 have been published, and others are in press and in preparation.

The department has available one fellowship and two scholarships which are given to deserving students each year. Applicants can secure full information in regard to them by addressing the head of the department.

#### MASTER OF ARTS

To register as a candidate for the degree of Master of Arts, a student must have completed two years of undergraduate work in zoology, and one in botany. Before entering upon graduate work in zoology, the student must consult with the head of the department as to the details of his course, even though his work may actually be done under the immediate direction of another member of the staff. The ordinary requirements are as follows:

**Minor:** An amount of advanced work equivalent to six credit hours throughout the year, together with a two-hour course of assigned reading, including seminar work for one semester.

**Major:** An amount of advanced work equivalent to 12 credit hours throughout the year, including a thesis and accompanied by the proportionate amount of assigned reading, including seminar work throughout the year.

**Complete course:** The whole time of the student for the year is spent in the field of zoology, and the subject selected for the thesis is accordingly more difficult than in the preceding case.

#### DOCTOR OF PHILOSOPHY

The preparation required of the student is the same as for the Master's

degree. The latitude allowed in the election of subjects is naturally much less, but the equipment of the department is such that in certain directions it is possible to offer work for this degree with zoology as a major. Of course the student must undertake such work only with the advice of the head of the department. The requirements are:

**Minor:** An amount of work approximating that of the complete course for the degree of Master of Arts.

**Major:** A course of graduate study which shall meet at least the minimum time requirement imposed by the Graduate College; the preparation of a thesis which shall represent original research, and three years of seminar work.

#### COURSES PRIMARILY FOR UNDERGRADUATES

**1. Introduction to Zoology**—For beginners and those wishing a general insight into methods and principles of the science. The lectures cover the general principles of morphology, physiology, development, classification and evolution of animals; the laboratory work, an intensive study of types drawn from the Protozoa and simpler invertebrates, together with subsidiary cytological and embryological material. Three hours attendance. Four hours laboratory. Three hours credit. May be elected as a five-hour course by arranging with the instructor for additional work. First semester.

Powers, Mitchell, and Assistants

**2. Introduction to Zoology**—1 continued. Second semester.

**A. General Zoology**—For beginners and those who desire to complete the year's work in general zoology in one semester. This course covers the same field as courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours or, with additional assigned work, six hours credit. Second semester.

Barker and Assistant

#### COURSES FOR UNDERGRADUATES AND GRADUATES

**3. Invertebrate Morphology**—Protozoa, Porifera, Coelenterata, and the worms. The lectures cover morphology and taxonomy, the laboratory work comprises gross dissection and microscopical study, and the course serves as an introduction to microscopical technique. Intended for the general student. (The Phyla, Echinodermata, Arthropoda and Mollusca are handled in alternate years, and may be expected in 1913-1914.) Three hours attendance. Four to eight hours laboratory. Three or four hours credit. First semester. Prerequisite: Courses 1 and 2, or equivalent.

Barker and Assistant

**6. Comparative Anatomy of the Vertebrates**—The lectures cover the

entire group of vertebrates. The laboratory work includes the dissection of a fish, amphibian, reptile or bird, and mammal, with demonstrations from preparations in other groups. Methods of preparing dissection material and making injections of circulatory system. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester. Prerequisites: Courses 1 and 2, or equivalent. Willard and Assistants

**7. Comparative Osteology of the Vertebrates**—A study in morphology, with the skeleton as a basis. The lectures are general and comparative. For the academic student laboratory work of similar character is arranged. For students in medicine and in physical training who expect to go on to human anatomy, the laboratory work involves a detailed study of the human skeleton, which is done in the anatomical laboratory in connection with the work in human anatomy (Anatomy 1 or 15). Two hours attendance. Four hours laboratory. Two hours credit. First semester. Should be preceded or accompanied by courses 1 and 2, or A. Woleott

**9. Advanced Work in Animal Morphology**—Devoted to the study of some assigned problem in morphology. Laboratory work with conferences and reading. May be elected as a five to ten hours study. First semester. Elected only after consultation with instructor.

Woleott, Powers, Barker

**10. Advanced Work in Animal Morphology**—9 continued. Second semester.

**12. Economic Zoology**—A course in which the economic aspects of zoology are emphasized. Lectures, laboratory and field work. Intended for those specializing in agricultural subjects. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester. Must be preceded by courses 1 and 2, or by permission of the instructor may follow 1. Woleott

**14. Forest Zoology**—Devoted to a study of the animal life of the forest, exclusive of insects, with particular attention to forms which are beneficial or injurious and which affect the propagation and spread of forest trees either in a state of nature or under cultivation. Intended especially for students in forestry. Two hours attendance. Four hours laboratory and field work. Two hours credit. Second semester. Should be preceded by courses 1 and 2 but may, by permission of the instructor, be taken by forestry students after course 1. Woleott

**15. Medical Zoology**—Lectures on morphology, taxonomy and relation to medicine of the groups Protozoa, Platyhelminthes, Nemathelminthes and Arthropoda and their role in the production and transmission of disease.

The laboratory work comprises gross dissection and microscopical study and serves as an introduction to microscopical technique. Intended especially for the medical student. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Prerequisites: Courses 1 and 2, or A.

Barker

**17. Animal Parasites**—Taxonomy, morphology, biology and economic relationship of animal parasites. Lectures, laboratory and field work. The handling of a simple assigned problem. Two hours attendance. Four to twelve hours laboratory. May be elected as a two to five-hour course. First semester. Open to students who have had Zoology 1, 2, and 3 or 15 or their equivalent.

Barker

**18. Animal Parasites**—Course 17 continued. Second semester.

[**21. The Historic Concept of Evolution**—The semester is devoted to the development of the evolutionary aspect of biology from approximately the beginning of the eighteenth century to the last quarter of the nineteenth, covering the work of Darwin's most influential predecessors, or Darwin himself, and of his contemporary followers and critics. Lectures and assigned readings. Two hours attendance. Four hours preparation. Two hours credit. First semester. *Not given in 1912-1913.* Powers]

[**22. Modern Genetics**—This course naturally follows course 21, which must precede it for all except advanced students. The ground covered includes much of modern experimental evolution with the resulting recent genetic theories as well as some of their practical bearings. Two hours attendance. Four hours preparation. Two hours credit. Second semester. *Not given in 1912-1913.* Powers]

**22. Organic Evolution**—Course 21 continued. Modern experimental evolution and recent genetic theories, with a discussion of the theoretical and practical bearings of proven results. Second semester. Powers

**25. Advanced Work in Experimental Zoology**—Individual work on an assigned problem. Laboratory work with conferences and assigned readings. May be elected as a five to ten hour subject. First semester. May be taken only by permission of instructor. Powers

**26. Advanced Work in Experimental Zoology**—Course 25 continued. Second semester.

**27. Advanced Work on Local Fauna**—A course in ecology, devoted to the study of some problem connected with the distribution within the state of a certain group of animals, or with the fauna of a certain habitat. The aquarium room offers facilities for keeping material throughout the winter.

Field and laboratory work with conferences and assigned reading. May be elected as a five to ten hour course. First semester. Open only to a limited number, by permission of instructor. Wolcott, Powers

28. **Advanced Work on Local Fauna**—Course 27 continued. Second semester.

31. **Field Zoology**—From six to ten field trips taken on Saturdays, covering usually one half day each, and under the direct supervision of the instructor, the object being the direct study of the local fauna and the cultivation of habits of outdoor observation. Emphasis is laid upon the study of aquatic life. Field notes, a limited amount of reading, and a written report on at least one subject required of each student. This work is correlated closely with that done in Zoology 1 and 2, is open only to those who have taken or are taking these courses, and is especially advised for those who expect to teach zoology. Any person who is not accustomed to outdoor exercise should consult with the instructor before electing the course. The course is elective in either the first or the second semester but continues throughout two semesters, the total amount of work required being equivalent to one credit hour, and no credit being given for less than the full course. Powers

32. **Zoological Fresh-water Biology**—Open only to students who have taken or are taking Zoology 1 and 2. Four hours laboratory and field work, two hours preparation; two hours credit. Second semester. Powers

33. **Methods in Teaching Zoology**—A course for high school teachers, including a discussion of the methods of presenting the subject, of the choice of books and of the collection and handling of laboratory materials. Two hours lecture and conference. Assigned reading, laboratory and field work in addition. Two hours credit. First semester. Open regularly to students who have taken courses 1 and 2, or A. Wolcott

36. **Ornithology and Nature Study (Teachers' Course)**—A course in ornithology which may be supplemented by a systematically arranged series of problems designed to train the power of direct observation and deduction from such observation. Planned especially for those expecting to teach in the grades. May be elected as a one hour course in ornithology, demanding one hour attendance and an average of two hours of field and laboratory work weekly, or as a two hour course in nature study, demanding in addition a conference hour and an additional field or laboratory period of two hours. Second semester. Open to all but recognized in part fulfillment of the group requirement for a degree only if elected as a 2-hour subject, and by arrangement with the instructor. Wolcott and Assistant

**41. Seminar**—Reviews of recent literature and discussion of current problems. Participated in by the department staff, open to election by advanced students and required of candidates for advanced degrees, of whom are required reports on assigned readings. One hour attendance. One hour credit. May be elected more than once. First semester.

**42. Seminar**—41 continued. Second semester.

**43. Research**—The equipment of the department and the library facilities are such that research along certain lines indicated below is being carried on. An extensive Salt Basin, including a salt lake over a mile in extent and alkali flats with numerous ponds, all within a few minutes' walk of the campus, offer noteworthy opportunities for certain types of investigation.

a. Morphology of the mites. Ecological studies and investigations on the local fauna. Study of variation in certain insect groups, particularly the tiger-beetles. Wolcott

b. Morphology of the protozoa. Experimental research on reproduction of fresh-water hydroids and rotifers; and on problems involving growth, regeneration, color pattern, etc., in the salamander. Variational and distributional studies on the animal life of ponds, especially those of the Salt Basin. Powers

c. Morphology of the parasitic protozoa and worms. Barker

## UNIVERSITY EXTENSION

A. A. Reed, Acting Director

**Aim of Regents**—The constant aim of the Regents of the University of Nebraska is to make the University a school of the people, by the people, and for the people—to bring the University and the home in closer touch; to give every citizen a chance to get the highest education at the smallest possible cost; to take the University to all the people of the state who are unable to adjust themselves to the formal system of education.

**Purpose of University Extension**—The purpose of University Extension work is to give all persons who are unable to formally attend school an opportunity through correspondence study to investigate all problems—artistic, literary, historical, social, industrial, moral, political, educational,—problems in sanitation, city lighting, sewerage; banking, crises, money, divorce,—in fine, all problems that may concern the citizens of Nebraska.

**To Whom the Work Appeals**—University Extension work, therefore, appeals to the following classes of persons: (1) rural, grade, and high

school teachers who cannot avail themselves of resident instruction; (2) students preparing for college; (3) college students who are unable to pursue continuous resident study; (4) teachers and others who have a partial college course and wish to work along some special line; (5) instructors in higher institutions who desire assistance in the advance study of some subject; (6) professional and business men who wish technical information; (7) ministers and Bible students who wish to study the sacred scriptures from a literary standpoint; (8) all who desire a broader knowledge or a more thorough and comprehensive scholarship.

Division of Work—As a matter of convenience, the work is divided into four departments as follows:

- I. Correspondence-Study.
- II. Instruction by Lectures.
- III. Debating and Public Discussion.
- IV. General Information and Welfare.

### **I. Correspondence-Study**

The possibility and efficiency of teaching by correspondence-study has already been demonstrated by practical experience in University Extension work in the leading universities and colleges of both Europe and America. While such instruction lacks some of the advantages which resident study gives, it has compensating advantages of its own. In correspondence instruction the teaching is personal and individual. Every student studies and recites the whole lesson, and comes in contact by correspondence with the teacher as an individual, not as a member of a large class. Correspondence-study employs the spare time of the student, gives him an interest besides his daily work. It can be done at home, and thereby brings into the home a new influence and charm. Correspondence work, moreover, throws the student upon his own resources and makes him self-reliant and self-determining.

Through this new department, the University is reaching out a helping hand to every citizen. It plans to add to the resources of life, of education and of industry; to give practical assistance to the farmer and the mechanic, to the professional man and the business man, to the employer and the employee, to teacher and to student, to farmer boy and farmer girl, to housekeeper and home-maker.

For all who desire to take correspondence-study the University of Nebraska, through its Extension department, is able to offer:

First. Correspondence courses of study in all subjects required for city, county and state certificates.

**Second.** Correspondence courses of study for University credit, as follows:

- Administrative School Law.
- American Government.
- American History—General Course.
- Life and Times of Lincoln.
- Agronomy I—Soils.
- Agronomy II—Field and Forage.
- Bohemian.
- Civics and Health.
- Educational Theory and Practice.
- English Literature I.
- English Literature II.
- English Literature VII—Comparative.
- Geology.
- Industrial Geography.
- Nebraska History and Nebraska Problems.
- Philosophy of Education.
- Physical Education.
- Physical Geography.
- Reading.
- Rhetoric I.
- Rhetoric II.
- The Secondary School.
- School Administration.
- Trigonometry.
- Weather and Climate.
- Zoology.

**Methods of Work and Instruction—**Each lesson contains: (1) full directions for study, including reference to the text-books by chapter and page; (2) necessary suggestions for assistance; (3) questions to test the student's method of work as well as his understanding of the ground covered. After a careful study of the subject, the student writes his answers to the questions, with a statement of any difficulties that may have arisen during his study, and mails them to the Director of University Extension, Station A, Lincoln, Nebraska. The answer papers are carefully read and marked by the proper examiner, and are returned to the proper student by the Director. In like manner every lesson is carefully criticised by the instructor and returned, so that each student receives personal guidance.

and instruction throughout the course. The following specific directions must be followed by all correspondence students: The writing material should be the regular student's note-paper, regular teacher's examination paper, or single sheet legal cap. All papers must be written in ink. Answers shall be written on one side of the paper only. The name of the course, and the name and address of the student must be written at the top of the first page of each set of answer papers. Each page of answer papers must be properly numbered and fastened together in consecutive order before mailing to the Extension office. Answers must be in clear, concise terms. The answers must be numbered in the middle of the page to correspond to the questions. Credits will be deducted from carelessly written or illegible manuscripts. Correspondence students must use sufficient postage when mailing answer papers to the Extension office. On returning these papers to correspondence students, the Extension office will furnish the postage.

Requirements for College Credit—Three hours' preparation constitute the minimum requirement in Extension work in any and all subjects for one hour of college credit. No credit is given without the approval of the head of the department in which the Extension work is taken. The final examination is given under such rules and regulations as the head of the proper department may require. Only one-half of the unit hours required for graduation may be taken in correspondence study.

Requirements for Entrance Credit—Ten hours of preparation each week for one semester or a period of sixteen weeks constitute the minimum requirement in the Extension work for a credit point for entrance to the University. No entrance credit is granted without the approval of the head of the proper department.

Requirements for Certification Credit—Extension work pursued by those desiring to fit themselves for the teachers' examination for county, city or state professional certificates granted by the State Superintendent of Public Instruction is given under the supervision of the Director of University Extension, with the approval of the head of the proper department.

Expenses and Fees—The fees for correspondence study are placed upon the lowest operating basis possible for thorough and expeditious instruction. Those who will investigate the fees charged by other state universities, private schools and colleges for correspondence study will find that the University of Nebraska has undertaken to do University Extension work at a lower cost to its students in the Extension department than has ever been done before in this country, and at the same time not lower the

efficiency of the instruction given. The fact must be borne in mind that the correspondence student is usually engaged in a gainful occupation or profession, whereas the resident student temporarily suspends his earning power. The correspondence student may also be said to be turning his leisure time into economic values by this method. These and many other factors contribute toward establishing this as an inexpensive system of achievement and education. All fees are payable in advance. There will be no refund of any fee paid for Extension work unless the University is unable to give instruction in the course of study applied for by the student.

**Text-Books and Supplies**—All text-books and supplies necessary for the work desired may be bought from the Purchasing Agent, Station A, Lincoln, Nebraska, at cost. The student may purchase direct from the publisher, but it will expedite matters for those who take the work, as well as for the extension department, to deal direct with the Purchasing Agent of the University, and in nearly every case it will be cheaper for the student so to do, as the University can secure all books at wholesale price, while the student could only obtain retail prices.

**Time for Completing Work**—It is assumed that a semester's course of study in correspondence work may be completed by the average student in eighteen weeks on a minimum leisure for study of one hour and a half per day, six days in the week. It is, however, the student's privilege to pursue his studies as fast as he can or as slow as he must. If for reasonable cause the student desires more than one semester in which to complete the semester's work, this may be granted, but only under extraordinary circumstances will the student be given more than one year from the date of registration in which to complete a course of study. All students taking correspondence work are cautioned against trying to carry too much work at one time. When the student is over-burdened by regular daily duties and correspondence study, University Extension work will become a punishment and a detriment rather than a pleasure and an inspiration as it may when a reasonable amount of work is undertaken.

**May Register Any Time**—One of the best features of University Extension work is that the student may register at any time and pursue the course of study alone, if necessary. As a rule better work can be done where there is a class of persons working together in an Extension center under a competent leader. But this will be impossible for a great number of those who desire to do Extension work. Therefore, they are given the opportunity of registering at any time and working alone.

Examinations—Where the student is taking correspondence-study to prepare for the examination for a teacher's certificate, the final examination will be given under the rules and regulations governing the county teacher's examination, and will be conducted by the county superintendent or by the city superintendent of normal training high schools. This will place the examination within easy reach of every teacher taking the work. Where the final examination is taken for University credit, it will be given under the authority of the University of Nebraska and will be conducted by county superintendents, city superintendents and high school principals throughout the state as representatives of the University. This makes all examinations especially convenient for all who may be taking correspondence-study.

## II. Instruction by Lectures

Instruction by lectures is an important feature of University Extension work. The University of Nebraska is able to offer through its Extension department first-class lecture talent at reasonable rates.

Nearly all members of the faculty are available for lecture engagements. Many lectures and addresses can be secured for educational gatherings on the payment of actual expenses. In all cases the charge is nominal.

## III. Debating and Public Discussion

We cannot better emphasize the aims of this department and the value of Debating and Public Discussion than to quote from the report of Dean Louis E. Reber, Director of University Extension of the University of Wisconsin: "This department aims to arouse and stimulate among all classes of people an intelligent and active interest in important social and political questions. Believing that there is no form of popular education that tends more essentially to the making of good citizens than study and discussion of live issues, the department collects and maintains a loan library of books and periodicals relating to questions of the day, available upon application, issues bulletins on special topics, and keeps in touch by correspondence or personal interviews with civic leagues, town councils, library and school boards, farmers' and business men's clubs, high school and academy societies, and all similar organizations throughout the state. It is difficult to estimate the value of wide-spread, systematic training of this character in its influence upon the citizens of the state. It is conceded that no other study in the university or college does more to discipline the mind and promote an interest in questions vitally affecting humanity and

the government than the work done in debating societies. It is fortunate that so useful and so broadening a pursuit can be carried on in the home of the student without interruption to his regular occupations. Without other outlay than time and thought the debater is led, first to feel an interest in and desire to know about the great national and state issues of his day. This point gained, he is taught where and how to obtain material for his studies, a valuable asset in itself, if by this means he acquires the ability to inform himself when and upon what subjects he will. In studying great questions and formulating them for debate he learns to discriminate between fundamental underlying principles and non-essentials. He comes to recognize sound reasoning, not only in questions he debates, but in all his reading. In presenting arguments in public he is gaining lessons of self-control, of correct speech, and of concise thinking. That an immense influence may be exerted in countless directions by means of such training spread abroad throughout the state is evident."

The Nebraska High School Debating League was organized by Prof. M. M. Fogg, Department of Rhetoric, University of Nebraska, in January, 1908, at the earnest solicitation of several of the leading school men in the state, for the purpose of promoting oral discussion in Nebraska secondary schools. Thirty-one schools participated in twenty League contests during the first year of its organization. Each year since there has been an increase in the membership and interest. Where any school belonging to the League desires material on the subjects to be debated during the ensuing year, it will be furnished at actual cost through the Extension department. This material will be selected by expert debaters working under the direction of Professor Fogg. This plan reduces the cost for debating material to the minimum for all schools belonging to the League.

#### IV. General Information and Welfare

The departments of history, political economy, sociology and the colleges of agriculture, law and medicine will, through the General Information and Welfare Department of University Extension, render valuable assistance to thousands of persons throughout the state.

University Extension is for the benefit of all the people and must be comprehensive both with reference to including the work of all departments of the University proper, so far as practicable, and in covering the widest possible range of study of all questions that concern the people of the commonwealth. Its purpose is clearly set forth in Professor Caldwell's report to the Chancellor and Regents, made April 18, 1908: "To investigate all

problems—artistic, literary, historical, social, industrial, moral, political, educational; problems of sanitation, city lighting, sewerage; banking, crises, money, divorces, etc.—in fine, all problems that may concern the citizens of Nebraska."

For further information relative to any question concerning University Extension work, write the Director of University Extension, Station A, Lincoln, Nebraska.

# **The College of Engineering**

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**OFFICERS OF INSTRUCTION AND ADMINISTRATION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

OSCAR VAN PELT STOUT, B. C. E., C. E., Head Professor of Civil Engineering and Dean of the College of Engineering.

ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics and Dean of the College of Arts and Sciences.

GEORGE RICHARD CHATBURN, B. C. E., A. M., C. E., Head Professor of Applied Mechanics and Machine Design.

JAMES DAVID HOFFMAN, B. M. E., M. E., Head Professor of Mechanical Engineering and Practical Mechanics.

BURTON EVANS MOORE, Ph. D., Professor of Physics.

CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics.

GEORGE HART MORSE, B. E. E., E. E., Professor of Electrical Engineering.

LEON WILSON CHASE, B. Sc., Professor of Agricultural Engineering.

CLARENCE AURELIUS SKINNER, Ph. D., Head Professor of Physics.

GEORGE EVERETT CONDRA, Ph. D., Head Professor of Geography and Economic Geology.

BENTON DALES, Ph. D., Professor of Chemistry.

CAPTAIN HALSEY E. YATES, Inf. U. S. A., Professor of Military Science and Tactics.

GEORGE OLLEN VIRTUE, Ph. D., Professor of Political Economy and Commerce.

CLARK EDMUND PERSINGER, A. M., Associate Professor of American History.

PHILIP K. SLAYMAKER, M. E., Associate Professor of Applied Mechanics and Machine Design.

LOUIS BRYANT TUCKERMAN, Jr., A. B., Assistant Professor of Physics.

CHARLES LEE DEAN, B. Sc. in M. E., Assistant Professor of Mechanical Engineering.

JUDD NOBLE BRIDGMAN, M. S., Assistant Professor of Civil Engineering.

NELS AUGUST BENGTSON, A. M., Assistant Professor of Geography and Economic Geology.

LYNN A. SCIPIO, A. B., B. S., Assistant Professor of Mechanical Engineering.

JESSE EPHRAIM RASMUSEN, B. Sc. in M. E., Assistant Professor of Applied Mechanics and Machine Design.

\* LOCKWOOD J. TOWNE, Ph. B., B. Sc. in C. E., Assistant Professor of Civil Engineering.

ADOLPH STORM RIDDERVOLD, Assistant Professor of Civil Engineering.

GEORGE BORROWMAN, A. M., Assistant Professor of Chemistry.

VERNON LEO HOLLISTER, B. S., Adjunct Professor of Electrical Engineering.

ALBERT EGGLETON BUNTING, Adjunct Professor of Practical Mechanics.

\* CLAUDE KEDZIE SHEDD, B. Sc. in Agr., Adjunct Professor of Agricultural Engineering.

CLARK EDWIN MICKEY, B. Sc. in M. E., B. Sc. in C. E., Adjunct Professor of Applied Mechanics.

WALTER SCOTT PAYNE, Instructor in Foundry and Machine Shops.

JOHN GRENNAN, Instructor in Forge and Foundry Work.

#### **Standing Committees of the College of Engineering**

Course of Study and Advanced Standing—Professors Chatburn, Morse, Hoffman, Chase, the Dean.

Schedule of Classes—Professors Engberg, Hollister, Dean, Rasmussen, Riddervold, Slaymaker, Bridgman, Tuckerman, Brenke, Mickey, Bunting, the Registrar.

Unclassed Students—Professors Hoffman, Morse, Chatburn, and the Registrar.

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\* Resigned.

## ORGANIZATION OF THE COLLEGE OF ENGINEERING

By an act of the Legislature of 1909, the Industrial College of the University was abolished and the engineering departments, formerly included in that college, were organized into a College of Engineering. It is the purpose of this college to give a broad, thorough training in mathematics and the physical sciences, with the application of these subjects to the fundamental and special branches of engineering science. While strongly emphasizing those subjects which are of fundamental importance to all branches of engineering, a considerable amount of specialization is permitted in the several groups of study offered by the college. In each department of instruction the work in the class room is made clear and real by extensive work in the laboratories.

## EQUIPMENT AND FACILITIES FOR INSTRUCTION

Three buildings on the University Campus and one at the University Farm are devoted primarily to the work in the College of Engineering: the Electrical Engineering Laboratories, erected in 1891; Mechanic Arts Hall, erected in 1898; the Mechanical Engineering Laboratories, erected in 1909, and Machinery Hall.

**Mechanic Arts Hall** is devoted to the work in civil engineering, electrical engineering, applied mechanics and machine design and mathematics. In addition to the lecture rooms, designing and instrument rooms and offices of these departments, the building contains the following important laboratories:

**The Materials Laboratories**, devoted to the testing of the strength and properties of the materials of construction, occupy two large rooms. The first, 20 by 65 feet, contains a 200,000 lb. Riehle and a 50,000 lb. Olson universal testing machine, a 50,000 in. lb. torsion testing machine, an engine lathe and other tools for preparing specimens. The adjoining room, 30 by 40 feet, contains two types of cement testing machines, tables and apparatus for molding and storing briquettes and a standard brick rattler. These together with deflectometers, extensometers, compressometers, and other instruments and apparatus provide for tests of metals, stone, brick, timber, cement, concrete, and other building materials.

**The Engineering Library** contains a large and valuable collection of engineering and mathematical books, bound periodicals, transactions of engineering societies, with all the more important engineering journals.

The completeness of this library makes it well adapted for study and research.

**Surveying.** For the work in surveying a large assortment of levels, transits, plane tables, rods, chains, etc., is provided.

**Drawing Rooms.** The freshman drawing room, a large, well lighted and well ventilated room, is situated on the fourth floor of Mechanic Arts Hall. It is supplied with good oak desks and instrument lockers to accommodate six sections of fifty students each. The drawing rooms for machine design and mechanism are on the third floor of the same building, while those for civil engineering classes are on the second and first floors. Other rooms for the mechanical and electrical engineering students are in the buildings devoted to those subjects.

**The Electrical Engineering Laboratories**, devoted exclusively to the work in electrical engineering, contain (in addition to some lecture rooms and small research laboratories), the **Dynamo Laboratory**, which is well equipped with a variety of electrical generators, motors, transformers, lamps, instruments, etc., for experimental and research work. Among the important machines in this laboratory, the following may be mentioned: A 20 lamp Wood and a 25 lamp Thomson-Houston series arc generator; a  $3\frac{1}{2}$  k. w. U. S. shunt wound generator; two 15 k. w. Edison shunt wound generators; two  $1\frac{1}{2}$  k. w. Edison shunt wound generators; a 30 k. w. Westinghouse single phase, alternating current generator; a 15 k. w. General Electric three phase, alternating current generator; a 20 h. p. Lincoln variable speed motor; five different types of direct current motors; a 30 h. p. Crocker-Wheeler and a 10 h. p. Westinghouse three phase induction motor; two  $7\frac{1}{2}$  k. w. rotary converters of different types.

**The Mechanical Engineering Laboratories** building, recently completed at a cost of \$118,000, is the largest and one of the finest in the university group. The building contains the class rooms, offices, and the following important laboratories of the Department of Mechanical Engineering:

**The Power Laboratory**, for experimental and research work in steam engineering, gas power engineering, refrigeration and hydraulics. Among the most important items of equipment in this laboratory may be mentioned: A 150 h. p. cross-compound, condensing Corliss engine, with appliances and apparatus for research work; a 20 and a 25 h. p. simple automatic engine; a 5, 15 and 40 h. p. simple throttling engine; two 20 h. p. steam turbines of different types; a 65 h. p. cross-compound, two-stage air

compressor with Meyer valve gear; a 50 h. p. Buckeye tandem producer gas engine attached to a specially designed Smith suction gas producer, arranged to burn any kind of fuel; an 18 h. p. Mietz & Weiss oil engine; a 14 h. p. Jacobson automatic gas and gasoline engine; an 8 h. p. Springfield gas and gasoline engine; a ten ton York refrigerating machine, complete with freezing tank, etc., for the study of refrigeration and the manufacture of ice; a large duplex, direct acting steam pump; two surface condensing outfits; two three-stage turbine pumps, each direct-connected to a 50 h. p. variable speed, three-phase induction motor; a complete equipment of New York and Westinghouse air brakes; a large steel pressure tank with concrete weir tanks, weighing tanks, scales, etc., for experimental work in hydraulics and the testing of hydraulic motors; together with a large assortment of indicators, dynamometers, etc.

**The Fuel Testing Laboratory**, containing a number of coal and gas calorimeters for determining the heating value of coal, gas and oil, and the necessary apparatus for testing lubricants and friction.

**The Wood Working Laboratory**, containing forty speed lathes and thirty-two work benches, with complete sets of tools, a pattern makers' lathe, combined cross-cut and rip buzz-saw, band saw, jig saw, planer, etc.

**The Foundry Laboratory**, containing two cupola furnaces, two brass furnaces, core ovens, a large traveling crane and all other necessary apparatus for foundry work.

**The Forging Laboratory**, containing thirty-five down draft forges, complete with tools, a large direct-connected motor driven blower and exhaust fan, a steam hammer, drill press, etc.

**The Machine Tool Laboratory**, containing fifteen screw cutting lathes, two speed lathes, a large planer, two shapers, two milling machines, a large horizontal boring mill, a large universal grinding machine, a universal cutter grinder, several drill presses, including a large radial drill, together with a variety of other tools, machines, and benches for machine tool and bench work in the metals.

**The University Heating and Power Plant** houses the University power and heating boilers, stokers and electrical generating plant of 400 k. w. capacity. While primarily a "commercial" plant, the apparatus may be used occasionally by engineering students for testing.

**The Agricultural Engineering Buildings**, located on the campus of the University Farm, contain laboratories for work in wood, for forge work and for instructional, experimental and research work with farm machinery, farm motors, rural architecture, etc.

### STUDENT ORGANIZATIONS

**The Engineering Society.** Membership in this society is open to all students in the college. It was organized to promote interest in engineering science and the work of the College of Engineering. In addition to papers presented by its members, there are, during the year, a number of addresses delivered before the society by professional engineers. The society issues a semi-annual publication called the *Blue Print*, containing technical articles by students, alumni and members of the faculty.

**Student Branch of the American Institute of Electrical Engineers.** This society, authorized by the A. I. E. E. to develop an interest in electrical engineering in general and the work of the parent society in particular, is open primarily to students in the electrical engineering group, and to local electrical engineers.

**Student Branch of the American Society of Mechanical Engineers.** This society, authorized by the A. S. M. E., is open primarily to students in the mechanical engineering group.

**Literary and Social.** The Palladian and the Union are open University literary societies meeting weekly on Friday evenings in their rooms in the Temple. Membership in a number of other literary and social clubs is open to students in the College of Engineering.

**Religious.** The Young Men's Christian Association, a non-sectarian and voluntary organization of Christian men, members of the University, organizes and conducts Bible study among the students, holds public meetings, helps students to find suitable rooming and boarding places, gives free aid to students in search of employment, and publishes an annual Students' Handbook containing information especially valuable to new students. Inquiries should be addressed to the Secretary of the Young Men's Christian Association, Station A, Lincoln, Nebraska.

### ADMISSION TO THE COLLEGE OF ENGINEERING

**Entrance Credits.** For admission to the Freshman class the candidate must present entrance "credits" equal to 30 "points,"\* that is, a total of 150 recitation or "credit" hours. Conditional admission is permitted

\* A "credit point" means the work of five recitations a week, of not less than forty minutes each, for at least eighteen weeks. In laboratory courses a "credit point" means three recitations a week plus two double periods of laboratory work under the supervision of an instructor. The time element with each subject is essential.

on a minimum of 28 "points," or 140 hours, to candidates who are graduates of a secondary school accredited to the University. Candidates who are not graduates of a secondary school or of a school whose instruction can be accepted as of equivalent rank are required to take examinations for admission. A student admitted conditionally must remove the conditions at the earliest possible opportunity. The degree will not be granted until such conditions are removed. Persons unable to meet the requirements for admission to the freshman class but who are able to qualify as "adult special" students may be admitted as such. Upon fulfilling the entrance requirements, such special students may register as regular students, and become candidates for a degree. All candidates for admission should forward their entrance credentials to the Registrar at least one month in advance of registration.

**Required Subjects (18 points).** Of the 30 points required for admission, eighteen must be presented from the following subjects, in the amount indicated:

Algebra (through logarithms), 1½ years, 5 hours a week.....	3
Rhetoric and Literature, 2 years, 5 hours a week.....	4
Geometry (plane and solid), 1½ years, 5 hours a week.....	3
History (European), 1 year, 5 hours a week.....	2
Language (Foreign), 2 years, 5 hours a week.....	4
Physical Science (Physics), 1 year, 5 hours a week.....	2

**Optional Subjects (12 points).** In addition to these required subjects, for which no substitutes are accepted, applicants must present twelve points from the following optional subjects:

Agriculture .....	1
* Rhetoric and Literature, 1 year, 5 hours a week.....	2
* History (American or European), 2 years, 5 hours a week.....	4
† Language (ancient or modern), 5 years, 5 hours a week.....	10
Natural Science (Botany, Zoology), 1 year, 5 hours a week each.....	2
‡ Physical Science (Chemistry), 1 year, 5 hours a week.....	2

\* Two additional points are granted only to schools named by the Committee on Accredited Schools.

† The maximum is 6 in any one language except Latin, wherein 8 may be offered.

‡ Students who do not present two points in Chemistry among their optional subjects, will find it necessary to complete equivalent work in Chemistry at the expense of the free electives in the groups of this college.

Physical Geography, $\frac{1}{2}$ year, 5 hours a week.....	1
Trigonometry (plane), $\frac{1}{2}$ year, 5 hours a week.....	1
Other subjects taught in an approved manner in an accredited secondary school.....	6

**Adult Special Students.** Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the college as Adult Special students under such conditions as shall be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Request for admission as special students must receive the approval of the Committee on Unclassed students; the action of this committee is final. Where possible, regular students must carry at least 12 hours of required work as scheduled under "Groups," or they become special, in which case their registration must be approved by the Committee on Unclassed students.

**Advanced Standing.** Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-fourths of the credits required for graduation from the University. Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regularly organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless,

in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

**Entrance from Accredited Schools.** The University maintains a list of "accredited" secondary schools whose graduates are admitted to the University without entrance examinations in duly certified subjects. The list of these accredited schools is given under "General Information Concerning the University," in the general catalog and also in the High School Manual published annually by the University and the State Department of Public Instruction.

**Registration.** Registration in the College of Engineering takes place on the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days.\* A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault; any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student may make such a change without written permission to the Registrar from the dean of each college concerned. No student is allowed to drop any study for which he has been regularly registered, except by written permission from the dean of his college. No regular student is allowed to register for less than twelve (12) hours nor for more than eighteen (18) hours a semester. A student cannot attend a class for which he is not

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\* Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage.

registered, and no credit is granted for studies pursued without registration.

**Advisers.** Since the first year's work in the Engineering College is practically the same for all groups, any member of the Engineering faculty may act as adviser to freshmen. For the second and subsequent years a student's adviser is the head of the department in which he expects to take his degree or some person delegated by that head to act for him. The adviser to unclassed students is the chairman of the Committee on Unclassed Students. No schedule of subjects is valid for registration without the signature of the student's adviser. The dean of the college acts as a head adviser for all students within the college.

## REQUIREMENTS FOR GRADUATION

**Hours of Credit.** In all of the four-year groups in the College of Engineering, 125 hours of University credit\* are required for graduation. No student is recommended for graduation who is not within eighteen hours of this requirement at the beginning of his last semester.

**Required Subjects.** The subjects required for graduation from any one of the four-year engineering groups are given under the appropriate group heading on pages 247 to 253. Four hours of military science (courses A1, A2, AA1, AA2) are required of all men students. Only credibly attested physical disability, or membership in a religious organization whose creed prohibits participation in warfare in any form (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Unless excused or reprieved by the Chancellor, each undergraduate man must fulfill this requirement in his freshman and sophomore years. A failure to take military science during the required semester, unless reprieved in writing by the Commandant or the Chancellor, increases the military science requirement one semester for each failure. A reprieve does not abridge or otherwise modify a man's requirement in military science save to defer the period for discharging it; and no reprieved man leaving the University without having discharged this requirement can claim honorable dismissal. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought.

\* A course receives one hour of credit for each one-hour recitation or lecture and two-hour preparation period it demands for each of the eighteen weeks or a semester. A laboratory course in engineering receives one hour credit for each three-hour period per week.

Those excused for conscientious scruples are required to do work in physical education equivalent in amount. Thorough drill elsewhere than at the University may, as in case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

**Special Examinations.** The board of regents has made the following ruling: (1) No student has a right to demand a private examination. Such examinations are granted simply as favors, at the option of instructors. (2) No member of a class or section may, for any reason or under any pretext whatever, be privately examined at an earlier time than that set for his class or section. Any individual examination permitted must be held later. (3) To be examined at a time later than that set for his class or section, whatever the reason, a student must pay a special examination fee of \$1 a course. The student desiring an individual examination in any course, first obtains his instructor's consent thereto, and then pays the Secretary the proper fee, taking a receipt. This receipt, being shown the instructor, authorizes him to proceed with the examination.

**Student Rules and Regulations.** Students in the College of Engineering are under the same University regulations as are the students of the other colleges of the University in regard to absence, delinquency, dismissal, student activities, and rooming. The most important of these rules are summarized in the first section of the annual general catalog of the University; a pamphlet containing the entire set of rules may be obtained from the Registrar.

### FEES AND EXPENSES

**Fees** must be paid, upon registration, to the Secretary. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. The following fees are required of students in the College of Engineering:

Matriculation (on first registration only).....	\$5.00
Being a statutory one, this fee cannot be refunded except when collected in error. It is also charged any student changing membership from one college to another.	

Non-resident tuition (charged persons not residents of the State of Nebraska), each semester .....	\$15.00
Incidental, each semester .....	3.00
Library (if no laboratory fees are paid) .....	1.00
Diploma fee .....	5.00

If degree is taken *in absentia*, \$10.00 additional.

Special registration (late registration or re-registration) .....	3.00
Special examination .....	1.00

#### LABORATORY FEES

Agricultural Engineering—Courses 1, 2, 11, \$3; 3, 5, 6, \$1; 4, 18, \$2; 9, 10, 12, 16, \$4.

Applied Mechanics—Courses 15, 17, 18, 20, \$3.

Chemistry—Courses A, B, 1, 2, 21, 22, 34, \$5; 5, 15, 16, 23, 27, 41, \$2; D, 1 and 2 combined, 3, \$10; 7, 8, 23a, 39, 40, for each credit hour a semester, \$1; 14, \$8; 20, \$4.

Civil Engineering—Courses 5a, 6a, 8, 30, \$3.

Electrical Engineering—Courses 6, 8, 9, \$5.

Mechanical Engineering—Courses 2a, 3a, \$2; 4, 15, \$4; 1, 2, 3, 5, 16, 17, \$6.

Physics—Courses 1, 2, 3, 4, 6, \$4; 1a, 2a, 3a, 4a, \$1; course 12 (3 hours credit) \$4; (4 hours credit) \$8.

These fees do not cover careless waste, breakage, or injury to apparatus. In any such case the student is required, upon notice by the department concerned, to pay the amount of such waste or damage at the Secretary's office, and to present his receipt therefor to the department before his semestral credit is reported to the Registrar.

**Expenses.** The average cost of a year's attendance at the University (not including fees of any kind) is about \$300. Many students reduce this amount. Board and lodging may be had among families of the city. In September the Young Men's Christian Association and the Young Women's Christian Association make, under the direction of the Registrar, a canvas of the city and keep on file lists of rooms and boarding places. The Young Men's Christian Association maintains an employment bureau. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the University do not, however, undertake to find employment for students. A student is advised not to enter the University unless he can count upon resources for one semester—at least \$150.

### STUDENT LOAN FUND

Hon. John R. Webster, of Omaha, Dr. John Alexander Low Waddell, of Kansas City, and Hon. William Gunn Whitmore, of Valley, have given the sum of \$1,000 each to be used as a permanent loan fund for students needing assistance. Mr. Webster's donation applies to all students in the University, while the donations of Dr. Waddell and Mr. Whitmore are limited to students in the Engineering College. The interest received from the loaning of this money goes to increase the fund. The full rules for its administration and application blanks may be obtained from the office of the Treasurer. Loans will only be made to students in need of assistance and to those who have been matriculated for at least one full year. Upper classmen will be given preference in the making of loans. The moral character of the applicant, his habits for temperance and industry, and his assiduity and success in his studies will also be determining factors. The amount loaned to one student will, except in extraordinary cases, be limited to \$100 per semester. The note given by the borrower will bear six per cent interest, payable annually; the loan is to be wholly repaid two years after the student graduates or leaves school.

### GROUPS OF STUDIES AND DEGREES

The College of Engineering offers four-year groups of study in Agricultural, Civil, Electrical and Mechanical Engineering, leading to the degree of Bachelor of Science in Agricultural, Civil, Electrical or Mechanical Engineering respectively, and a six-year combined Academic and Engineering group leading to the degree of Bachelor of Arts at the end of the fourth or fifth year and that of Bachelor of Science in one of the engineering groups at the end of the sixth year. In all of the four-year groups 125 "credit hours" are required for graduation.

**Agricultural Engineering.** The courses in Agricultural Engineering are arranged especially for those who expect to teach the subject and for men who contemplate the management of large farms or ranches which are handled on an extensive scale, and include a comprehensive discussion of farm machinery, farm motors, rural architecture, drainage, sewage disposal, water systems, etc.

**Civil Engineering.** The courses in Civil Engineering deal with the subjects of railroad engineering, hydraulic engineering, irrigation, water supply, sewerage, structural design, masonry construction, etc. **Mining Engineering.** Students expecting to become Mining Engineers will be

advised as to substitutions and electives which will facilitate entrance with advanced standing to a school of mines.

**Electrical Engineering.** The courses in Electrical Engineering include the theory and design of electrical machinery and the industrial applications of electricity to the transmission of power, lighting, street railways, and electro-metallurgy.

**Mechanical Engineering.** The courses in mechanical engineering deal with problems relating to combustion and the analysis of fuels, the generation and transmission of power, and the design, construction, operation and testing of machinery of all kinds.

**Six-Year Combined Academic-Engineering Course.** It has been found that all the requirements of both the academic and the engineering courses may be easily met in six years, the degree of Bachelor of Arts being taken at the end of the fourth or fifth year and that of Bachelor of Science in one of the Engineering courses at the end of the sixth.

### GRADUATE WORK IN ENGINEERING

Graduate work in engineering may be taken by any student who has had preparation in mathematics and science equivalent to that required of undergraduates in engineering, but candidates for the advanced degrees in engineering must, in addition, possess technical preparation equivalent to that required in the undergraduate courses. Graduate work consists of special laboratory investigations, of advanced engineering design or of the collection and reduction of existing data relating to some specific engineering topic. So far as possible such work is arranged to suit the needs of the individual student.

For one full year of resident graduate work with an acceptable thesis covering some phase of the work undertaken, there will be granted the degree of Master of Science in Agricultural, Civil, Electrical or Mechanical Engineering, depending upon the particular line of work pursued.

For three full years of resident graduate work in Engineering there will be granted upon the presentation and publication of a suitable thesis the degree of Doctor of Philosophy.

The degrees of Agricultural Engineer, Civil Engineer, Electrical Engineer, or Mechanical Engineer may be conferred upon graduates of the University of Nebraska of not less than five years' standing, who have previously received the degree of B. Sc. in Engineering, and who have been in responsible charge of work and done meritorious service in the practice

of their professions. At the time of registering for such degree the candidate will present a detailed statement of his preparation, work and experience together with an acceptable topic for a thesis. Not less than one year thereafter, during which time he shall have studied and worked under the general supervision of the head of the department in which he expects to take his degree, he shall submit his thesis and present himself for examination in the work done under the supervision mentioned above. If the thesis and examination prove satisfactory he will be recommended for the degree. In no case will a professional degree be conferred *in absentia*. The rules of the Graduate College apply to all graduate work and students taking the same must matriculate in that college.

**ORDER OF COURSES IN FOUR-YEAR ENGINEERING GROUPS**

To avoid conflict in the time schedules of students and to secure the proper sequence in studies, it is necessary that the engineering courses be taken in the following prescribed order. *In no case should this order be departed from without consultation with the head of the engineering department chiefly concerned.* (See also "Adult Special Students.")

**FIRST YEAR OF ALL FOUR YEAR ENGINEERING GROUPS**

FIRST SEMESTER	Credit Hours
Mathematics (Algebra and Plane Trigonometry) 1.....	5
Physics (Mechanics of Solids and Fluids) 1.....	3
Rhetoric and English Composition 1.....	2
Applied Mechanics (Mechanical Drawing) 1.....	3
* Mechanical Engineering (Elementary Wood Work) 1.....	3
Military Drill A1.....	1
	17

## SECOND SEMESTER

Mathematics (Analytical Geometry and Calculus) 2.....	5
Physics (Heat and Sound) 2.....	3
Rhetoric and English Composition 2.....	2
Applied Mechanics (Descriptive Geometry) 2.....	3
* Mechanical Engineering (Pattern-making, Foundry Work) 2, 2a.....	3
Military Drill, A2.....	1
	17

**AGRICULTURAL ENGINEERING GROUP**

## SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3.....	5
Agronomy (Farm Management) 3.....	2
Physics (Electricity and Magnetism) 3.....	2
Applied Mechanics (Mechanism) 3a.....	3
Agricultural Engineering (Farm Machinery) 1.....	2
Drill AA1.....	1
	15

\* In the Agricultural Engineering group, Agricultural Engineering 9 is taken in place of Mechanical Engineering 1, and Agricultural Engineering 10 in place of Mechanical Engineering 2 and 2a.

	SECOND YEAR—SECOND SEMESTER	Credit Hours
Mathematics (Calculus) 4.....		5
Horticulture (Ornamental Gardening) 6.....		2
Agricultural Engineering (Elementary Farm Motors) 2.....		2
Applied Mechanics (Theoretical and Applied) 14.....		3
Civil Engineering (Surveying) 5.....		2
Civil Engineering (Surveying Field Work) 5a.....		2
Drill AA2 .....		1
		<hr/> 17

## THIRD YEAR—FIRST SEMESTER

Agricultural Engineering (Advanced Farm Machinery) 11.....	2
Geography (Engineering Geology) 25.....	2
Agronomy (Soils) 7.....	2
Agronomy (Soil Physics) 9.....	2
Chemistry (Qualitative Analysis) 1.....	2
Mechanical Engineering (Steam Engineering) 10.....	4
Electrical Engineering (Electric Power) 3.....	2
	<hr/> 16

## THIRD YEAR—SECOND SEMESTER

Agricultural Engineering (Advanced Farm Motors) 12.....	2
Dairy Husbandry (Home Dairying) 2.....	4
Agricultural Engineering (Lighting and Sanitation) 14.....	2
Chemistry (Qualitative Analysis) 2.....	2
Mechanical Engineering (Laboratory) 16.....	3
Electrical Engineering (Laboratory) 8.....	2
	<hr/> 15

## FOURTH YEAR—FIRST SEMESTER

Applied Mechanics (Cement and Concrete Testing) 17.....	2
Agricultural Engineering (Rural Architecture) 3.....	3
Civil Engineering (Hydraulics) 11.....	2
Industrial History .....	2
Agricultural Engineering (Heating and Ventilating) 15.....	2
Electives .....	3
	<hr/> 14

FOURTH YEAR—SECOND SEMESTER	Credit Hours
Agricultural Engineering (Farm Drainage and Rural Highways) 4.....	3
Civil Engineering (Irrigation Engineering) 12.....	3
Industrial History .....	2
Agricultural Engineering (Laboratory) 16.....	2
Thesis or Electives.....	4
	<hr/> 14

## CIVIL ENGINEERING GROUP

## SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity and Magnetism) 3.....	2
Chemistry (Qualitative Analysis) 1.....	2
Applied Mechanics (Mechanism) 3.....	3
Civil Engineering (Surveying) 5.....	2
Civil Engineering (Surveying Field Work) 5a.....	2
Military Drill, AA1 .....	1
	<hr/> 17

## SECOND YEAR—SECOND SEMESTER

Mathematics (Analytical Geometry and Calculus) 4.....	5
Physics (Light) 4.....	2
Chemistry (Qualitative Analysis) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Civil Engineering (Surveying) 6.....	2
Civil Engineering (Surveying Field Work) 6a.....	2
Military Drill, AA2 .....	1
	<hr/> 17

## THIRD YEAR—FIRST SEMESTER

Electrical Engineering (Electric Power) 3.....	2
Applied Mechanics (Mechanics of Materials) 15.....	3
Applied Mechanics (Cement and Concrete Testing) 17.....	2
Civil Engineering (Hydraulics) 11.....	2
Chemistry (Technical and Metallurgical) 23.....	2
Electives .....	4
	<hr/> 15

	Credit Hours
<b>THIRD YEAR—SECOND SEMESTER</b>	
Civil Engineering (Masonry Construction) 22.....	4
Civil Engineering (Framed Structures) 16.....	4
Applied Mechanics (Materials of Construction) 18.....	2
Electrical Engineering (Laboratory) 8.....	2
Mechanical Engineering (Power Laboratory) 16, or.....	3
Mechanical Engineering (Experimental Hydraulics) 18.....	(2)
	14 or 15

**FOURTH YEAR—FIRST SEMESTER**

Civil Engineering (Design of Framed Structures) 15.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
Civil Engineering (Engineering Economics) 25.....	2
Romance Language (Spanish) 31, or approved electives.....	5
	14

**FOURTH YEAR—SECOND SEMESTER**

Civil Engineering (Advanced Theory of Structures) 20, or.....	3
Civil Engineering (Hydraulic Engineering) 24, or.....	(3)
Civil Engineering (Railway Location) 10.....	(3)
Civil Engineering (Engineering Economics) 26.....	2
Romance Language (Spanish) 32, or approved electives.....	5
Electives .....	4 or 3
	14 or 13

**ELECTRICAL ENGINEERING GROUP****SECOND YEAR—FIRST SEMESTER**

Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity and Magnetism) 3.....	2
Chemistry (Qualitative Analysis) 1.....	2
Applied Mechanics (Mechanism) 3.....	4
Mechanical Engineering (Forge Work) 3.....	2
Mechanical Engineering (Foundry Work) 3a.....	1
Military Drill, AA1 .....	1

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SECOND YEAR—SECOND SEMESTER	Credit Hours
Mathematics (Calculus) 4.....	5
Physics (Light) 4.....	2
Chemistry (Qualitative Analysis) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Mechanical Engineering (Machine Tool Work) 4.....	2
Physics (Problems in Electricity) 5.....	2
Military Drill, AA2 .....	1
<hr/>	
THIRD YEAR—FIRST SEMESTER	17
Applied Mechanics (Machine Design) 5.....	3
Applied Mechanics (Mechanics of Materials) 15.....	3
Electrical Engineering (Dynamos) 1.....	2
Physics (Electrical Measurements) 6.....	3
Civil Engineering (Surveying) 5.....	2
Civil Engineering (Surveying Field Work) 5a.....	2
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THIRD YEAR—SECOND SEMESTER	15
Applied Mechanics (Machine Design) 6.....	3
Electrical Engineering (Dynamos) 2.....	2
Chemistry (Technical) 23.....	2
Electrical Engineering (Electrical Laboratory) 8.....	2
Mechanical Engineering (Power Laboratory) 16.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
<hr/>	
FOURTH YEAR—FIRST SEMESTER	16
Electrical Engineering (Laboratory) 9.....	2
Electrical Engineering (Electric Lighting) 17, or.....	2
Electrical Engineering (Telephone Engineering) 19.....	(2)
Electrical Engineering (Alternating Currents) 5.....	4
Electives .....	5
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FOURTH YEAR—SECOND SEMESTER	13
Electrical Engineering (Chemical Engineering) 18.....	2
Electrical Engineering (Electric Railways) 20.....	2
Electrical Engineering (Technical Reports) 16.....	1
Thesis or Electives.....	4
Electives .....	4
<hr/>	
	13

## MECHANICAL ENGINEERING GROUP

	Credit Hours
SECOND YEAR—FIRST SEMESTER	
Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity and Magnetism) 3.....	2
Chemistry (Qualitative Analysis) 1.....	2
Applied Mechanics (Mechanism) 3.....	4
Mechanical Engineering (Forge Work) 3.....	2
Mechanical Engineering (Advanced Foundry Work) 3a.....	1
Drill, AA1 .....	1
	<hr/>
	17

## SECOND YEAR—SECOND SEMESTER

Mathematics (Calculus) 4.....	5
Physics (Light) 4.....	2
Chemistry (Qualitative Analysis) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Mechanical Engineering (Machine Tool Work) 4.....	2
Drill, AA2 .....	1
	<hr/>
	15

## THIRD YEAR—FIRST SEMESTER

Applied Mechanics (Machine Design) 5.....	3
Applied Mechanics (Mechanics of Materials) 15.....	3
Civil Engineering (Theoretical Hydraulics) 11.....	2
Electrical Engineering (Electric Power) 3.....	2
Mechanical Engineering (Fuel Testing Laboratory) 15.....	2
Mechanical Engineering (Machine Construction) 5.....	3
	<hr/>
	15

## THIRD YEAR—SECOND SEMESTER

Applied Mechanics (Machine Design) 6.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
Mechanical Engineering (Power Laboratory) 16.....	3
Chemistry (Technical) 23.....	2
Electrical Engineering (Electric Power) 4.....	2
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	14

FOURTH YEAR—FIRST SEMESTER	Credit Hours
Mechanical Engineering (Steam Boilers) 11.....	2
Mechanical Engineering (Heating and Ventilation) 19 or approved elective .....	2
Mechanical Engineering (Hydraulic Motors) 31.....	3
Mechanical Engineering (Thermodynamics) 13.....	3
Mechanical Engineering (Power Laboratory) 17.....	3
Electives .....	2
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FOURTH YEAR—SECOND SEMESTER	15
Mechanical Engineering (Gas Engineering) 22 or approved elective.....	3
Mechanical Engineering (Power Plant Design) 20.....	2
Mechanical Engineering (Power Transmission) 24.....	2
Electrical Engineering (Laboratory) 8.....	2
Thesis or Electives .....	4
Electives .....	2
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	15

**ORDER OF COURSES IN SIX-YEAR COMBINED ACADEMIC-ENGINEERING COURSE**

FIRST YEAR	Semester 1st    2d
Mathematics (Algebra and Plane Trigonometry, Analytical Geometry and Calculus) 1, 2 .....	5    5
The Classics or Modern Language.....	5    5
Rhetoric and English Composition 1, 2.....	2    2
Applied Mechanics (Mechanical Drawing, Descriptive Geometry) 1, 2 .....	3    3
Applied Mechanics (Free Hand Drawing, Applied Descriptive Geometry) 24, 23.....	1    1
Military Drill, A1, A2.....	1    1
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SECOND YEAR	17    17
Mathematics (Analytical Geometry, Calculus) 3, 4.....	5    5
Modern Language or English.....	5    5
Physics (Mechanics, Heat and Sound) 1, 2.....	3    3
* Mechanical Engineering (Wood, Pattern and Foundry Work) 1, 2, 2a .....	3    3
Military Drill, AA1, AA2 .....	1    1
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	17    17

\* In the Agricultural Engineering Group, Agricultural Engineering 9 and 10 are substituted for Mechanical Engineering 1, 2 and 2a.

	THIRD YEAR	Semester
		1st 2d
Applied Mechanics (Mechanism, Analytical Mechanics)	3, 14.....	4 3
History .....		3 3
Biology .....		3 3
Chemistry (Qualitative Analysis) 1, 2.....		2 2
Physics (Electricity, Magnetism and Light) 3, 4.....		2 2
Electives .....		2 3

## FOURTH YEAR

16 16

## AGRICULTURAL ENGINEERING.

**First Semester**—Agronomy 7, 9, 4 hours; Ag. Eng. 1, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; Eng. Geology 25, 2 hrs.; Civil Eng. 5, 5a, 4 hrs. . . . . 15

**Second Semester**—Eng. Lit. 2 or Rhet. 6, 3 hrs.; Ag. Eng. 2, 2 hrs.; Mech. Eng. 10,<sup>4</sup> 4 hrs.; Dairy Hus. 2, 4 hrs.; Elective, 2 hrs... 15

## CIVIL ENGINEERING.

**First Semester**—Chem. 23, 2 hrs., Civil Eng. 5, 5a, 4 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 15, 3 hrs.; Mech. Eng. 3, 3a, 3 hrs., 15

ELECTRICAL ENGINEERING

**First Semester**—Chem. 23, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 5, 15, 6 hrs.; Mech. Eng. 3, 3a, 3 hrs.; elective, 1 hr. . . . . 15

**Second Semester**—Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 6, 3 hrs.; Mech. Eng. 4, 10, 6 hrs.; Physics 5, 2 hrs.; elective, 1 hr. . . . 15

## MECHANICAL ENGINEERING

**First Semester**—Chem. 23, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 5, 15, 6 hrs.; Mech. Eng. 3, 3a, 3 hrs.; elective, 1 hr. . . . . 15

**Second Semester**—Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 6, 3 hrs.; Mech. Eng. 4, 10, 6 hrs.; elective, 3 hrs. .... 15

FIFTH YEAR

AGRICULTURAL ENGINEERING.

**First Semester**—Ag. Eng. 3, 11, 5 hrs.; Agronomy 3, 2 hrs.; Civil Eng. 11, 2 hrs.; American History 9 or Geography 1, 2 hrs.; App. Mech. 17, 2 hrs.; Elect. Eng. 3, 2 hrs. .... 15

**Second Semester**—Ag. Eng. 12, 14, 4 hrs.; Mech. Eng. 16, 3 hrs.;  
Elect. Eng. 4, 8, 4 hrs.; American History 10 or Geography 2, 2  
hrs.; Horticulture 6, 2 hrs. .... 15

## CIVIL ENGINEERING.

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 3, 2 hrs.; App. Mech. 17, 2 hrs.; Civil Eng. 11, 17, 5 hrs.; elective, 3 hrs. ....	15
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 8, 2 hrs.; Civil Eng. 16, 22, 8 hrs.; Mech. Eng. 18, 2 hrs. ....	15

## ELECTRICAL ENGINEERING.

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 1, 2 hrs.; Physics 6, 3 hrs.; Civil Eng. 5, 5a, 4 hrs.; Elective, 3 hrs....	15
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 2, 8, 4 hrs.; Mech. Eng. 16, 3 hrs.; elective, 5 hrs. ....	15

## MECHANICAL ENGINEERING.

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 3, 2 hrs.; Civil Eng. 11, 2 hrs.; Mech. Eng. 5, 11, 15, 7 hrs.; elective, 1 hr. ....	15
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 4, 2 hrs.; Mech. Eng. 16, 22, 24, 8 hrs.; elective, 2 hrs. ....	15

## SIXTH YEAR

## AGRICULTURAL ENGINEERING.

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Ag. Eng. 15, 2 hrs.; App. Mech. 15, 3 hrs.; Mech. Eng. 31, 3 hrs.; Thesis or elective, 3 hrs. ....	14
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<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Ag. Eng. 4, 16, 5 hrs.; Civil Eng. 12, 3 hrs.; Thesis or elective, 3 hrs. ....	14
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## CIVIL ENGINEERING.

<b>First Semester</b> —Civil Eng. 15, 25, 5 hrs.; Mech. Eng. 16, 3 hrs.; Rom. Lang. 31, or elective, 5 hrs.; elective, 1 hr. ....	14
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<b>Second Semester</b> —Civil Eng. 10, or Civil Eng. 20, or Civil Eng. 24, 3 hrs.; Civil Eng. 26, 2 hrs.; Rom. Lang. 32, or elective, 5 hrs.; Thesis or elective, 4 hrs. ....	14
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## ELECTRICAL ENGINEERING.

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 5, 17 or 19, 6 hrs.; elective, 5 hrs. ....	14
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<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Elect. Eng. 16, 18, 20, 5 hrs.; Thesis or elective 4 hrs.; elective, 2 hrs. ....	14
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## MECHANICAL ENGINEERING.

<b>First Semester</b> —Philosophy or Economics, 3 hrs.; Mech. Eng. 13, 17, 19, 31, 11 hrs.....	14
<b>Second Semester</b> —Philosophy or Economics, 3 hrs.; Mech. Eng. 20, 2 hrs.; Elect. Eng. 8, 2 hrs.; Thesis or elective, 4 hrs.; elective, 3 hrs. ....	14
Total number of hours required for each six year group.....	188

**COURSES OF INSTRUCTION****AGRICULTURAL ENGINEERING**

Head Professor Chase, <sup>\*</sup>Adjunct Professor Shedd, Mr. Baer, Mr. Sjogren

**\* 1. Farm Machinery**—The practical study of all lines of agricultural implements, tillage, seeding, harvesting, threshing, and fertilizing machinery. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. First semester.

**\* 2. Farm Motors**—The practical study of farm motors, the horse, windmill, steam boilers, steam engines, traction engines, gasoline engines, electric motors. Prerequisite: Mathematics 1, Physics 1 and 2. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. Second semester.

**3. Rural Architecture**—The laying out of farms, the study of houses, barns, granaries, sheds, fences, equipment, etc. Prerequisite: Mathematics 1. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. First semester.

Chase

**4. Farm Drainage and Rural Highways**—A study of methods of drainage, estimates, laying out drainage systems, etc. A study of the highways of Nebraska, construction and reconstruction, haulage, and highway laws. The first half of the time of this course is given to drainage, and the second to highways. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. Second semester.

Chase, —

**7. Research Work in Rural Architecture, Farm Drainage and Rural Highways**—The wide range of these subjects offers a great field for original investigation: drainage, water supplies, heating, fencing, building materials, sewerage, road construction, etc. Prerequisite: Courses 3 and 4. Six to fifteen hours laboratory or reading. Two to five hours credit.

Chase, —

**8. Research Work in Farm Machinery, Farm Motors and Farm Equipment**—The large equipment of machinery in the department gives an excellent opportunity for testing both in the laboratory and in the field, standardizing, traction tests, calibration and economic tests of both farm machinery and farm motors. Prerequisite: Courses 1 and 2. Six to fifteen hours laboratory or reading. Two to five hours credit. Chase, —

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\* For Undergraduates.

<sup>†</sup> Resigned.

\* 9. **Carpentry**—Practice with the care, use and adjustment of tools, exercises in bench work, farm equipment and farm building construction. Lectures on the cutting, selecting, milling and durability of timbers. One hour attendance. Eight hours laboratory. Three hours credit.

Baer, —

\* 10. **Forge Work**—Practice in forging, welding, tempering, pipe fitting, babbetting, chipping and repairing of farm machinery. Lectures on metallurgy of iron and steel, on wheelwright and shoeing. One hour lecture. Eight hours attendance. Three hours credit.

Sjogren

11. **Advanced Farm Machinery**—Laboratory work in the testing of field machines under various conditions. The testing of grinders, shellers, twine, etc. Prerequisite: Course 1. Six hours laboratory. Two hours credit. First semester.

12. **Advanced Farm Motors**—Complete tests of farm motors, both in the field and laboratory. Prerequisite: course 2. Mechanical Engineering 10, and in connection with Mechanical Engineering 16. Six hours laboratory. Two hours credit.

14. **Lighting and Sanitation of Farm Buildings**—Studies in lighting materials, lighting systems, water systems, sewerage, sewage disposal, etc. Prerequisite: Physics 1 and 2, Chemistry 1 and 2. Two hours attendance. Two hours preparation. Two hours credit.

Chase

15. **Heating and Ventilating of Farm Buildings**—Studies in farm fuels, heating and ventilating systems, including the complete design of heating and ventilating systems. Prerequisite: Physics 1 and 2, Chemistry 1 and 2, Applied Mechanics 1 or Agricultural Engineering 3. Two hours attendance. Four hours preparation. Two hours credit.

Chase

16. **Agricultural Engineering Laboratory**—Testing of fuels, heating systems, lighting systems, ventilating systems, pumping systems, etc. Prerequisite: Courses 14 and 15. Six hours laboratory. Two hours credit.

Chase

Courses 1, 2, 9, 10 for undergraduates.

Courses 3, 4, 7, 8, 11, 12, 14, 15, 16, for undergraduates and graduates.

## APPLIED MECHANICS AND MACHINE DESIGN

Head Professor Chatburn, Associate Professor Slaymaker, Assistant Professor Rasmussen and Adjunct Professor Mickey

PRIMARILY FOR UNDERGRADUATES

1. **Mechanical Drawing**—One hour attendance and eight hours drawing

a week in lettering, freehand sketching, geometrical construction and projection; working drawings of machine parts. Three hours credit. First semester.

Rasmussen

**2. Descriptive Geometry**—One hour attendance and six hours drawing a week, comprising, (1) text-book work on the solution of problems relating to geometrical magnitudes in space and their representations by drawings; (2) application of principles to working drawings. Prerequisite: Course 1 or experience in drawing. Three hours credit. Second semester.

Rasmussen

**3. Mechanism**—Two classroom periods and six hours drawing a week. Motions and forms of various mechanisms occurring in machines, manner of supporting and guiding the parts, independent of strength, and the design of gear teeth. Prerequisite: Courses 1 and 2. Four hours credit. First semester.

Slaymaker

**3a. Mechanism**—Same as 3, but only three hours drawing. For civil engineering students. Three hours credit.

**9. A Short Course in Mechanical Drawing**—Designed for students in Forestry. Free-hand lettering, the use of instruments and curve tracing, preparatory to map making. One hour attendance and six hours drawing. Two hours credit. First semester.

Rasmussen

**20. Timber Physics**—An elementary course in applied mechanics with especial reference to the physical properties of timber. Illustrated in the laboratory by the testing and study of the strength of various timbers in tension, compression, cross-bending, shear, etc. For students in forestry. Prerequisite: Mathematics 1, Physics 1, and Botany 34. Two hours attendance. Three hours laboratory. Three hours credit. Second semester.

Chatburn, Mickey

#### FOR UNDERGRADUATES AND GRADUATES

**5. Machine Design**—Elementary design of shafting and shaft couplings, pulleys and fly-wheel, power-screws, bearings and guides. Nine hours drawing a week. Prerequisite: Courses 1, 2, 3 and 14. Three hours credit, First semester.

Slaymaker

**6. Machine Design**—Each student makes a number of complete designs, studies constructive details, makes calculations to determine strength of parts and estimates cost. Nine hours drawing a week. Prerequisite: Courses 1, 2, 3, and 5. Three hours credit. Second semester. Slaymaker

**8. Steam-Engine Design**—Working from an assumed indicator card, each student designs the principal dimensions of a high-speed automatic

cut-off engine and the details of assigned parts. Reports upon each particular design. Six hours drawing a week. Prerequisite: Courses 1, 2, 3, and 5. Two hours credit. Second semester. Slaymaker

13. **Stereotomy**—Drawing and laboratory. Six hours drawing. Two hours credit. First and second semesters. Chatburn

14. **Theoretical and Applied Mechanics**—Prerequisite: Mathematics 3. Principles of kinematics, statics and kinetics. Three hours attendance. Three hours credit. First and second semesters.

Chatburn, Rasmussen, Mickey

15. **Mechanics of Materials**—Resistance of materials, and mechanics of beams, columns, shafts, etc.; laboratory experiments. Prerequisite: Course 14. Two hours attendance. Three hours laboratory. Three hours credit. First and second semesters. Chatburn, Rasmussen, Mickey

17. **Cement and Concrete Testing**—Classification, composition, manufacture, inspection, sampling and specifications. Practical testing of cement, mortars, concretes, and other materials of construction. Prerequisite: Course 14. One hour attendance. Three hours laboratory. Two hours credit. First and second semesters. Mickey

18. **Materials of Construction**—Manufacture and general properties. Mechanical properties of materials as revealed by actual tests. Comparison of tests reported by other laboratories. Continuation of tests begun in course 17. One hour attendance. Three hours laboratory. Two hours credit. Second semester. Mickey

22. **Graphic Statics**—Elements of graphic statics applied to engineering construction. Prerequisite: Course 14. One hour attendance. Six hours drawing. Three hours credit. Second semester. Chatburn

23. **Applied Descriptive Geometry**—Advanced course in mechanical drawing. Practical applications of the principles of descriptive geometry. Shades; shadows and perspective; tinting and stippling. Prerequisite: Courses 1 and 2. Three, six or nine hours drawing a week. One, two or three hours credit. Rasmussen

24. **Free Hand Drawing**—Designed for engineering students. Three hours drawing. One hour credit. First and second semesters. Hayden

26. **Advanced Mechanics**—Open to students who have completed course 14 or Mathematics 4. Three hours attendance. Three hours credit. Second semester. Chatburn

28. **Architectural Drawing**—This is not to be confused with a course in architecture but will consist of instruction in the method of procedure

in drawing plans for houses and their corresponding elevations. The student will work up an original design for a dwelling house, making all the floor plans and elevations, including the arrangement of stairs, water pipes, heating plant, etc. Such details of construction will be studied as will be necessary in making the design. Prerequisite: Course 2. Six hours drawing with two hours credit. Second semester.

Slaymaker

## CIVIL ENGINEERING

Head Professor Stout, Head Professor Chatburn, Assistant Professor Bridgeman, Assistant Professor Riddervold.

### FOR UNDERGRADUATES AND GRADUATES

**5. Surveying**—To be accompanied by course 5a. Prerequisite: Trigonometry. Two hours attendance. Two hours credit. First semester.

Bridgman

**5a. Surveying Field Work**—To accompany course 5. Six hours field. Two hours credit. First semester.

Bridgman

**6. Surveying**—5 continued. Second semester.

**6a. Surveying Field Work**—5a continued. Second semester.

**8. Railway Surveying**—Field and office methods employed in surveys for locating and constructing railroads. Prerequisite: Courses 5 and 5a. One hour attendance. Six hours field. Three hours credit. Second semester.

Bridgman

**9. Railway Construction**—Principles and practice. Roadbed, tunnels, minor structures. Contractors' organization and equipment. Cost data and analysis; estimates. Prerequisite: Course 8 or equivalent experience in actual work. Two hours attendance. Two hours credit. First semester.

Bridgman

**10. Economic Theory of Railway Location**—Scientific balancing of cost, receipts, and operating expenses. Open to fourth-year students. Three hours attendance. Three hours credit. Second semester.

Bridgman

**11. Hydraulics**—Prerequisite: Calculus and Applied Mechanics 14. Two hours attendance. Two hours credit. Both semesters.

Stout

**12. Irrigation Engineering**—Grade, cross-section and capacity of canals; surveys; designs of structures; source of water supply; analysis of hydrographic data; return and seepage waters; irrigation by pumping; organization; legal and economic principles. Prerequisite: Course 11. Three hours attendance. Three hours credit. Second semester.

Stout

13. **Water Supply of Cities**—Prerequisite: Course 11. Three hours attendance. Three hours credit. First semester. Riddervold
14. **Cleaning and Sewerage of Cities**—Prerequisite: Course 11. Three hours attendance. Three hours credit. Second semester. Riddervold
15. **Design of Framed Structures**—Prerequisite: Course 16. Three hours attendance. Three hours credit. First semester. Riddervold
16. **Stress in Framed Structures**—Prerequisite: Applied Mechanics 15. Four hours attendance. Four hours credit. Second semester. Riddervold
17. **Reinforced Concrete**—Theory and practice in design and construction of concrete reinforced by steel. Prerequisite: Applied Mechanics 15. Three hours attendance. Three hours credit. First semester. Riddervold
18. **Structural Design**—Adapted to the needs of students in Mechanical and Electrical Engineering. Prerequisite: Applied Mechanics 15. Two hours attendance. Two hours credit. Second semester. Riddervold
20. **Advanced Theory of Structures**—Arches, cantilevers, continuous girders, statically indeterminate stresses. Prerequisite: Course 15. Three hours attendance. Three hours credit. Second semester. Riddervold
21. **Roads, Streets and Pavements**—Lectures, assigned readings, and reports. Two hours attendance. Two hours credit. First semester. Chatburn
22. **Masonry Construction**—Prerequisite: Applied Mechanics 14. Four hours attendance. Four hours credit. Second semester. Stout
24. **Hydraulic Engineering**—Hydraulic development for purposes of drainage, power, and transportation. Flood protection. Collection and analysis of hydrographic data and the principles involved in the design of reservoirs, canals, levees, and structures. Prerequisite: Course 11. Three hours attendance. Three hours credit. Second semester. Stout
25. **Engineering Economics**—Conducted on the seminar plan. Two hours attendance. Two hours credit. First semester. Stout, Bridgman, Riddervold
26. **Engineering Economics**—25 continued. Second semester.
30. **Exploratory Surveying**—Designed for students of forestry. Prerequisite: Course 5. One hour attendance. Six hours field work. Three hours credit. Second semester. Bridgman

**ELECTRICAL ENGINEERING**

Professor Morse, Adjunct Professor Hollister

PRIMARILY FOR UNDERGRADUATES

1. **DYNAMOS**—Theory and practice of direct current machinery. Two hours attendance. Two hours credit. First semester. Morse

2. **DYNAMOS**—1 continued. Second semester.

3. **Electric Power**—Elementary principles. Industrial applications. For students in civil and mechanical engineering. Two hours attendance. Two hours credit. First semester. Hollister

4. **Electric Power**—3 continued. Second semester.

5. **Alternating Currents**—Theory and practice of alternating current machinery. Prerequisite: Courses 1 and 2. Four hours attendance. Four hours credit. First semester. Morse

6. **Alternating Currents**—5 continued. Two hours class-room attendance. Six hours laboratory. Four hours credit. Second semester. Morse, Hollister

8. **Electrical Laboratory**—Practice in operating and testing dynamos, motors, transformers, and subsidiary apparatus. Six hours laboratory. Two hours credit. First and second semesters. Hollister

9. **Electrical Laboratory**—8 continued. Six hours laboratory. Two hours credit. First semester. Hollister

10. **Thesis**—Graduating thesis on approved subject demanding knowledge of engineering. Four hours credit. Morse, Hollister

16. **Technical Reports**—One hour attendance. One hour credit. Second semester. Morse

18. **Electro-Chemical Engineering**—Batteries, electric furnaces, production of aluminum and other metals, refining and deposition of metals and electrolysis. Two hours attendance. Two hours credit. Second semester. Morse

20. **Electric Railways**—Construction and operation. Following courses 1 and 2. Two hours attendance. Two hours credit. Second semester. Morse

17. **Electric Lighting**—Distributing systems, lamps, electric and other, photometry, effective lighting, rules for wiring, lighting stations. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester. Morse

19. **Telephone Engineering**—Line construction, telegraph and telephone instruments, switchboards and circuits. Two hours attendance. Two hours credit. First semester. Hollister

## MECHANICAL ENGINEERING

Head Professor Hoffman, Assistant Professor Dean, Assistant Professor Scipio, Adjunct Professor Bunting, Mr. Payne, Mr. Grennan

PRIMARILY FOR UNDERGRADUATES.

1. **Wood Work**—Bench work in wood and wood-turning; lectures on wood-working tools and machinery and the properties of timber. One hour attendance. Eight hours laboratory work. Three hours credit. First semester. Bunting

- 2 and 2a. **Pattern-Making and Elementary Foundry Work**—Construction of patterns and core-boxes; lectures on pattern-making, foundry work and the metallurgy of cast iron. Prerequisite: Course 1. One hour attendance. Eight hours laboratory. Three hours credit. Second semester. Bunting, Grennan

3. **Iron and Steel Forging**—Practice in forging, welding and tempering; lectures on forging tools and machinery and the metallurgy of iron and steel. One hour attendance. Five hours laboratory. Two hours credit. First semester. Grennan

- 3a. **Advanced Foundry Work**—Three hours laboratory. One hour credit. First semester. Taken with course 3. Grennan

4. **Machine Work in Metals**—Exercises in the use of the engine lathe, planer, shaper, milling machine and the art of cutting metals; lectures on machine tools. One hour attendance. Five hours laboratory. Two hours credit. First and second semesters. Payne

5. **Machine Construction**—4 continued. One hour attendance. Eight hours laboratory. Three hours credit. First and second semesters. Payne

FOR GRADUATES AND UNDERGRADUATES

10. **Steam Engineering**—Forms and mechanism of steam machinery. Economy of operation and adaptability to a given service; elementary theory of heat engines. Differential and integral calculus and applied mechanics required. Four hours attendance. Four hours credit. First and second semesters. Hoffman, Scipio

11. **Steam Boilers**—Design and construction of steam boilers, furnaces, settings; their safety and economy of operation. Prerequisite: Course 10.

Two hours attendance, occasional drawing. Two hours credit. First semester. Hoffman

13. **Thermodynamics**—Advanced study of the thermodynamics of gases and vapors, the applications of the science to heat engines, injectors, refrigerating machinery, steam turbines, etc. Prerequisite: Course 10. Three hours attendance. Three hours credit. First semester. Scipio

15. **Fuel Testing Laboratory**—Proximate analyses of coal; determination of heating value of coal, gas, and oil; the testing of lubricants and friction. Six hours laboratory. Two hours credit. First semester.

Scipio

16. **Mechanical Engineering Laboratory**—Calibration of instruments, indicator practice, valve setting, efficiency tests of engines and boilers, injectors, pumps, gas engines. The measurement of power. Nine hours laboratory. Three hours credit. Second semester. Dean, Scipio

17. **Mechanical Engineering Laboratory**—Complete tests of simple and compound Corliss engines, air compressors, gas engines, steam pumps, and refrigerating machinery. Prerequisite: Course 16. One hour attendance. Eight hours laboratory. Three hours credit. First semester. Dean

18. **Experimental Hydraulics**—Experiments on the flow of water through orifices and nozzles and over weirs; the testing of hydraulic motors and pumps. Prerequisite: Civil Engineering 11. Six hours laboratory. Two hours credit. Second semester. Dean

19. **Heating and Ventilation**—Theory and design of the various systems for heating and ventilating buildings, including hot air, hot water, steam and the plenum and vacuum systems, and central station heating. Prerequisite: Course 10. Two hours attendance. Two hours credit. First semester. Hoffman

20. **Steam Power Plant Design**—The design of a complete steam power plant and the formulation of specifications therefor. Prerequisites: Courses 10 and 11. Occasional lectures. Six hours drawing. Two hours credit. Scipio

22. **Gas Power Engineering**—The theory and design of gas, gasoline and oil engines; gas producer practice; the combustion of gaseous fuels. Prerequisite: Course 10. Three hours attendance. Three hours practice. Second semester. Scipio

24. **Power Transmission**—Transmission of power by shafting, belts, ropes, water, compressed air, gas. Two hours attendance. Two hours credit. First semester. Hoffman

**31. Hydraulic Motors and Pumping Machinery**—Theory of water-wheels, turbines, pressure engines and pumps. Three hours attendance. Three hours credit. First semester. Hoffman

## PRIMARILY FOR GRADUATES

**27. Advanced Laboratory Investigations**—Special investigations of problems relating to steam engines and boilers, gas engines, etc. Nine or twelve hours laboratory. Three or four hours credit. First semester.

Hoffman, Dean

**28. Advanced Laboratory Investigations**—27 continued. Nine or twelve hours laboratory. Three or four hours credit. Second semester.

Hoffman, Dean

## AMERICAN HISTORY

[American History 10. **Public Lands Policy and Laws of the United States**—Development of the successive "Wests" of American History; governmental policy and laws as to the disposition of lands to settlers in each "West"; rise of distinction between agricultural, mineral, grazing and forest lands; state public lands and land policies; the conservation movement. Text, reference and research work. Two hours attendance. Two hours credit. Second semester. Given only in alternate years. *Not given in 1912-13.* Persinger]

## CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Mr. Wilson, Miss Whaley

## Analytical Chemistry

**1. Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 credit points. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Borrowman, Wilson, Whaley

**2. Qualitative Analysis**—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Borrowman, Wilson, Whaley

1 and 2 (combined), **Qualitative Analysis**—Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester. Dales, Wilson, Whaley

**Technical and Metallurgical Chemistry**

**23. Engineering Chemistry**—The chemistry of the materials of engineering—iron and steel, Portland cement, fuels, gases, boiler water, etc., with a laboratory course in the analysis of the same. Required of all engineers. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First and second semesters. Borrowman

**23a. Engineering Chemistry**—A laboratory course for engineers and others who wish to do more than is required in course 23. Prerequisite: Courses 1, 2 and 23. Hours credit dependent upon amount of work done. First and second semesters.

Borrowman

**ENGINEERING LAW**

**Engineering Law**—A course in business law with special reference to the needs of engineers. Essential elements of a contract; who may contract. Corporate bodies. Bids and bidders. Employment of engineer or architect. Property rights in designs and inventions. Liability of engineer or architect. Engineer or architect as an expert witness. Two hours attendance. Two hours credit. Second semester.

Conant

**GEOGRAPHY AND ECONOMIC GEOLOGY**

Head Professor Condra, Assistant Professor Bengtson

**1. The Land**—An introductory lecture and laboratory course upon practical physiography. Some of the topics discussed are: The common minerals, rocks, structures and relief features; weathering of minerals and rocks; plains and plateaus; land formed—produced by the erosion of plains, plateaus and mountain folds; flood plains, deltas, and alluvial fans; erosion and deposits of glaciers; volcanoes and earthquakes. An attempt is made to describe the leading physiographic processes, land and water forms. The lectures are fully illustrated by lantern, maps, models and specimens. Students carrying this course are advised to take also one or both of the related courses, 21 and 22. Two hours attendance. Four hours laboratory, library and preparations. Two hours credit. First semester.

Condra, Bengtson

**2. Geography of North America**—A summary study of the political divisions, relief, drainage, coast lines, climate, structure of the continent, and a fuller treatment of each of the seventeen soil regions; the structure, physiographic history, topography, drainage, resources, industries, settlement and development of each region. (The Great Plains Region is

emphasized.) Attention is given to the literature of the subject. The course is suited to all students who wish a knowledge of the geography of our country. Lectures are illustrated. Two hours attendance. Four hours library, laboratory and preparations. Two hours credit. Second semester.

Condra, Bengtson

5. **Industrial Geography**—A close study of the mineral fuels, forest and water resources of the United States. Detailed studies are made of the regions, processes and products of the following industries: coal, coke, petroleum, iron and steel, lumber and pulp wood. Lectures fully illustrated by slides, maps and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. First semester. Condra, Bengtson

21. **Field Geology**—Field study of quarries, clay pits, gravel pits, sand dredges and rock out-crops, use of barometer, level, camera and drawing materials as employed on surveys. Interpretation of structures and topographies. One or two hours credit. Trips on Saturdays. First and second semesters.

Bengtson

25. **Engineering Geology**—The properties, origin, occurrence, and use of certain rock-forming minerals; types of structure; periods and systems; the geology of mineral fuels, water supplies, sand and gravel, building stone cement materials, road materials, and clay. The various materials are studied in the laboratory. Examination and reports on quarries, clay pits and sand deposits; lectures illustrated by lantern, specimens and maps. Two hours attendance. Four hours library, laboratory and field. Two hours credit. First semester.

Condra, Bengtson

## MATHEMATICS

Head Professor Davis, Professor Engberg, other members of departmental staff

### COURSES

A. **Solid Geometry**—Prerequisite: Five points high school credit. Five hours attendance. Five hours credit. First and second semesters.

1. **Algebra and Plane Trigonometry**—Prerequisite: Six points high school credit. Five hours attendance. Five hours credit. First and second semesters.

2. **Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

3. **Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

**4. Calculus**—3 continued. Five hours attendance. Five hours credit. First and second semesters.

**4a. Calculus**—4 continued. Two hours attendance. Two hours credit. Second semester. Davis

**5. Differential Equations**—Prerequisite. Course 4. Three hours attendance. Three hours credit. First semester. Candy

**6. Differential Equations**—5 continued. Second semester.

**7. Theory of Probabilities**—Three hours attendance. Three hours credit. Second semester. Engberg

## PHYSICS

Head Professor Skinner, Professor Moore, Professor Almy, Assistant Professor Tuckerman, Mr. McComb, Mr. Spencer

### General and Experimental Physics

**1. General and Experimental Physics**—Mechanics of solids and fluids. Two hours lecture with illustrative experiments. Solution of problems. Four hours laboratory. Three hours credit. First semester.

**2. General and Experimental Physics**—Heat and sound. As in 1. Second semester.

**3. General and Experimental Physics**—Electricity. Two hours lecture with illustrative experiments. Four hours laboratory. Two or three hours credit. First semester.

**4. General and Experimental Physics**—Light. As in 3. Second semester.

**5. Problems in Electricity**—Prerequisite: Course 3. Two hours attendance. Two hours credit. Second semester.

**6. Electrical Measurements**—Prerequisite: Courses 3 and 5. Eight hours laboratory. Three hours credit. First semester.

## POLITICAL ECONOMY

Political Economy 1. **Elementary Course**.—A general survey of the industrial organization of society; development of natural resources; the division of labor; production, exchange and distribution of wealth; utility and value, wages, interest, rent and profits, money and credit, rise and fall of prices and the cost of living, transportation, protection and free trade, trusts and trade union, state and municipal ownership, socialism. Three hours attendance, three hours credit. First and second semesters.

Le Rossignol, Virtue, Stephens, England

**9. Economic History of the United States.**—A study of the economic development of the United States from colonial times to the present. Special attention is given to the settlement of the land and extension of farming area, to the application of machinery to agriculture, to the development of manufactures, to the increase in transportation facilities, and to the growth of internal and foreign trade. Text-book, weekly papers and term report. Three hours attendance. Three hours credit. First semester.

Virtue

NOTE—For description of courses in: Biology (Botany, Zoology), Classics or Modern Language, English Literature, Military Science and Tactics, Philosophy, Physical Education, Political Economy, Rhetoric, and Spanish, see "Courses of Instruction," in the College of Arts and Sciences; for Agronomy, Dairy Husbandry, and Horticulture, see the College of Agriculture.

# **The College of Agriculture**

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

EDGAR ALBERT BURNETT, B. Sc., Dean of the College of Agriculture and Director of Experiment Stations. Agricultural Hall 203.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University.

LAWRENCE BRUNER, B. Sc., Head Professor of Entomology and State Entomologist.

FREDERICK JAMES ALWAY, Ph. D., Head Professor of Agricultural Chemistry. Experiment Station Hall.

EDWIN MEAD WILCOX, Ph. D., Head Professor of Agricultural Botany. Agricultural Hall 303.

LEON WILSON CHASE, B. Sc. in M. E., Head Professor of Agricultural Engineering. Machinery Hall.

CHARLES WILLIAM PUGSLEY, B. Sc., Superintendent of Agricultural Extension and Head Professor of Farm Management. Agricultural Hall 204.

JULIUS HERMAN FRANDSEN, M. S. A., Head Professor of Dairy Husbandry, Dairy Hall.

\* HOWARD REMUS SMITH, B. Sc., Professor of Animal Husbandry. Agricultural Hall 103.

FREDERICK MAURICE HUNTER, A. B., Principal of School of Agriculture and Head Professor of Secondary Agricultural Education. Agricultural Hall 207.

ROLLINS ADAMS EMERSON, A. M., Professor of Horticulture. Horticultural Hall.

ROSA BOUTON, A. M., Professor of Home Economics. Home Economics Hall.

\* EDWARD GERRARD MONTGOMERY, A. M., Professor of Experimental Agronomy. Experiment Station Hall.

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\* Resigned.

- CAPT. HALSEY E. YATES, 17th Inf., U. S. A., Commandant of Cadets and Professor of Military Science. Grant Memorial Hall.
- GEORGE EVERETT CONDRA, Ph. D., Head Professor of Geography and Economic Geology. University Hall 7.
- JAMES HARRISON GAIN, M. D. C., Professor of Animal Pathology. Veterinary Hall.
- WILLIAM PATTON SNYDER, A. B., M. S., Superintendent of North Platte Experimental Substation.
- WILLIAM WESLEY BURR, B. Sc., Soils, Associate in Crops. North Platte.
- ALICE BAIRD ENSIGN, A. B., Adviser to Women.
- OLENUIS LEE SPONSLER, A. B., Associate Professor of Forestry, in charge of the Department of Forestry. Nebraska Hall 105.
- MYRON HARMON SWENK, A. M., Associate Professor of Entomology and Assistant State Entomologist. Experiment Station Hall.
- GEORGE ANDREW LOVELAND, A. M., LL. B., Associate Professor of Meteorology and Observer United States Weather Bureau. Brace Laboratory.
- \*HARRIET FOLGER, B. Sc., Associate Professor of Home Economics. Home Economics Hall.
- JULIA EMMELINE LOUGHBRIDGE, A. B., Assistant Principal of the School of Agriculture and Adjunct Professor of Mathematics. Agricultural Hall 207.
- LAZELLE BRANTLEY STURDEVANT, A. M., M. D., Assistant Professor of Animal Pathology. Veterinary Hall.
- PERCY BONSFIELD BARKER, A. B., Associate Professor of Agronomy. Experiment Station Hall.
- THEODORE ALEXANDER KIESSELBACH, A. B., B. Sc., Associate in Experimental Agronomy, in charge. Experiment Station Hall.
- ROBERT FRANCIS HOWARD, B. Sc. in Ag., Assistant Professor of Horticulture. Horticultural Hall.
- ELLIS RAIL, B. Sc. A., Assistant Professor of Animal Husbandry. Agricultural Hall 104.
- ERWIN HOPT, B. Sc., Assistant Professor in Agronomy (Crops). Stock Judging Pavilion.

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\*Resigned.

VERNON VILAS WESTGATE, A. M., Assistant Professor of Horticulture. Horticultural Hall.

NELS AUGUST BENGSTON, A. M., Assistant Professor of Geography and Economic Geology. University Hall 7.

FLORA BULLOCK, A. M., Adjunct Professor of English.

WILLIAM LUTHER FRENCH, B. Sc., Adjunct Professor of Dairy Husbandry. Dairy Hall.

ROBERT SAMUEL TRUMBULL, A. M., Adjunct Professor of Agricultural Chemistry. Experiment Station Hall.

\* CLAUDE KEDZIE SHEDD, B. Sc., Adjunct Professor of Agricultural Engineering. Machinery Hall.

GEORGE KONRAD KARL LINK, S. B., Adjunct Professor of Agricultural Botany. Agricultural Hall.

CHARLES BOSS LEE, B. Sc., Assistant Professor of Animal Husbandry. Agricultural Hall 104.

WILLIAM JACOB DUPPERT, M. S. F., Adjunct Professor of Forestry. Nebraska Hall 105.

ALVA ALDUS BAER, Instructor in Wood Work. Machinery Hall.

\*OSCAR WARNER SJOGREN, Instructor in Forge Work.

ORPHA NESBITT, B. Sc., Instructor in Home Economics. Home Economics Hall.

HELEN LEE DAVIS, A. B., B. Sc., Adjunct Professor in Home Economics. Home Economics Hall.

HORACE CLYDE FILLEY, A. M., Assistant Professor of Farm Management. Correspondence Courses in Agriculture. Agricultural Hall 205.

MABEL HEDGES, A. B., Assistant in Home Economics. Home Economics Hall.

MARY VIRGINIA ZIMMER, A. M., Instructor in Mathematics.

GLAIDETH GAINEVERE DENNY, A. B., Assistant in German and History. Agricultural Hall.

GRACE RICHARDS, A. B., Instructor in Home Economics. Home Economics Hall.

MARY ELLEN BROWN, A. B., Instructor in Home Economics. Home Economics Hall.

EDNA CLARA NOBLE, B. L., Library Assistant. Agricultural Hall.

SAMUEL MCKELVIE, Lecturer in Swine Judging. Agricultural Hall 103.

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\* Resigned.

- ESTHER MOSHER BURRITT, A. B., Assistant in English. Agricultural Hall 109.
- LEWIS MORGAN PUFFER, Ph. B., Assistant in Mathematics.
- ARTHUR JAY LUDDEN, A. M., Assistant in Agricultural Chemistry. Experiment Station Hall.
- \* ELLA BRADFORD HARPER, A. B., Instructor in Home Economics. Home Economics Hall.
- GERTRUDE NORTON ROWAN, A. M., Agricultural Extension, Home Economics. Agricultural Hall 205.
- HOWARD JOHN GRAMLICH, B. Sc. in Agr., Agricultural Extension. Agricultural Hall 204.
- HORACE JAMES YOUNG, B. Sc. in Agr., Instructor in Agronomy. Experiment Station Hall.
- GUY RAYMOND McDOLE, A. M., Assistant in Agricultural Chemistry.
- CLAYTON ORD ROST, A. B., Assistant in Agricultural Chemistry.
- CLIFFORD NORMAN CATLIN, A. B., Assistant in Agricultural Chemistry.
- VERN LEE CLARK, A. B., Assistant in Agricultural Chemistry.
- MARTIN SIMON JUSSEL, B. Sc., Assistant in Agronomy.
- JOHN TODD ZIMMER, A. M., Field Expert in Entomology.
- EDWIN LOVEJOY CURRIER, B. Sc., Assistant in Farm Management.

#### Standing Committees of the Faculty

- Course of Study—Professor Hunter (chairman), Professors Bouton, Bruner, Chase, Pugsley, Wilcox, Barker.
- Farmers' Institutes—Professor Pugsley (chairman), The Dean, Professors Frandsen, Emerson.
- Schedule of Classes—Professor Chase (chairman), Professors Hunter Loughridge, the Registrar.

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\* Leave of absence.

## PURPOSE OF THE COLLEGE OF AGRICULTURE

The College of Agriculture was established by an act of the legislature of 1909, reorganizing the colleges within the University. The purpose of this college is (1) to provide thorough instruction in the technical agricultural sciences and (2) to aid in the promotion of agriculture through its secondary Schools of Agriculture, its Experiment Stations, and its Agricultural Extension work.

## GROUPS OF STUDY

The **Agricultural Group** meets the needs of those students who desire to make practical application of their education in the management of land or who wish to prepare themselves for the pursuit of scientific investigation along some line in agriculture, such as agricultural botany, agricultural chemistry, agronomy, animal husbandry, animal pathology, dairy husbandry, entomology, forestry, horticulture, and other technical subjects related thereto. This group should also appeal to those who desire to prepare themselves for teaching in high schools or in agricultural colleges and who desire special agricultural training to meet the demands of the schools requiring that instruction be given in agriculture. As a course in general education for students who expect to follow business pursuits or to continue still further the study of some technical agricultural subject, this course is offered as a suitable foundation. To those who desire an education which will put them in touch with the leading industrial activities of the state, and fit them to be leaders on the farm, the Agricultural course will also prove most efficient.

**Forestry Group.** This group is designed to guide the student in the selection of courses and is aimed to prepare men for either general or technical work in forestry. The sequence of the courses during the first three years is arranged to give a basis for a broad education and at the same time to give a good scientific foundation leading to the more technical courses in forestry. While the group is intended primarily for foresters, many of the courses may be taken by students in general collegiate work or by students specializing in other lines, who desire a knowledge of some particular line of forestry.

The **Home Economics Group** leads to the degree of Bachelor of Science in Home Economics. Besides those subjects which have to do especially with the home, it includes studies in science, language, history, and other branches affording a good general education, while giving special efficiency

in household arts and sciences.\* This department is housed in Home Economics Hall, situated on the University Farm. The hall is a three-story brick building, equipped to provide practical instruction in cooking, sewing, and general house work.

### FACILITIES FOR INSTRUCTION

To illustrate properly the work in the various departments in agriculture, the college is provided with a farm of 320 acres which is used for experimental purposes and to illustrate methods in farm practice, showing the effect of rotations and methods of treatment on the physical and chemical properties of the soil and on its productiveness. The department of Horticulture maintains an extensive orchard and garden for demonstrating horticultural methods and practices. The departments of Animal Husbandry and Dairy Husbandry keep extensive herds for instruction in types of farm animals. The agricultural plant, aside from lands, consists of eight main buildings and several barns and accessory buildings to complete the work and efficiency of the plant. Agricultural Hall is used for administration, library, and laboratories in Agricultural Botany. Experiment Station Hall furnishes laboratories for Soils, Entomology, and Agricultural Chemistry. The Judging Pavilion furnishes stock judging laboratories and grain judging laboratories, with exceptional facilities for work. The Agricultural Engineering building furnishes laboratories in forge work, wood work, and farm machinery. Horticultural Hall is devoted to laboratories and class rooms for horticultural instruction. Dairy Hall furnishes laboratories for instruction in buttermaking and cheesemaking, supplemented by a herd of exceptional efficiency to demonstrate the best dairy practice. Home Economics Hall furnishes laboratories for instruction in cooking and in household art. All of the technical departments giving instruction have excellent laboratory facilities and depend upon the laboratory method to give definiteness and efficiency to their instruction.

### ADMISSION TO THE COLLEGE OF AGRICULTURE

**Entrance Credits.** For admission to the freshman class in the College of Agriculture the candidate must present 30 entrance credits or "credit points;" that is, a total of 150 recitation hours. Conditional admission

\* For the University Teachers' Certificate in Home Economics, see department of Home Economics under "Courses of Instruction." Also, page 282.

is permitted on a minimum of 28 points, or 140 recitation hours; but a student admitted conditionally must remove the conditions at the earliest possible opportunity. A degree will not be granted until all such conditions are removed.

**Required Subjects (17 points).**\* Of the 30 points required for admission, 17 must be presented from the following subjects in the amount indicated; the time element is essential:

Algebra (through Simultaneous Quadratics and Logarithms), 1½ years,	
5 hours a week .....	3
Rhetoric and Literature, 2 years, 5 hours a week.....	4
Geometry (plane), 1 year, 5 hours a week.....	2
§ † Language (ancient, modern), 3 years, 5 hours a week.....	6
History (European), 1 year, 5 hours a week.....	2
† Physical Science (Physics), 1 year, 5 hours a week.....	2

**Optional Subjects (13 points).** In addition to the above required subjects, for which no substitutes are accepted, candidates for admission must present 13 points from the following optional subjects:

§ Agriculture, 5 hours a week .....	1
Rhetoric and Literature, 1 year, 5 hours a week.....	2
History, 2 years, 5 hours a week.....	1 to 4
Home Economics, 1 year, 5 hours per week.....	2
Language (ancient or modern), 4 years, 5 hours a week.....	2 to 8
Natural Science (Zoology, Botany), 1 year, 5 hours a week, each.....	1 or 2
Physical Science (Chemistry), 1 year, 5 hours a week.....	1 or 2
Physical Geography, ½ year, 5 hours a week.....	1
Solid Geometry, ½ year, 5 hours a week.....	1
Trigonometry (plane), ½ year, 5 hours a week.....	1
Other subjects taught in an approved manner in an accredited secondary school (one each) .....	6

\* An "entrance credit" or "credit point" means the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses, a "credit point" means three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least eighteen weeks.

† May be offered as a substitute for two points language.

§ Two additional points may be afforded as a substitute for Language or as optional subjects in schools approved by the High School Inspector.

|| Where approved by High School Inspector, may be offered in place of two points Language or as optional subjects.

**Entrance Examination.** All students who have completed the University Preparatory course in the School of Agriculture are admitted to the College of Agriculture without examination. Young women graduating in Home Economics from the School of Agriculture are admitted to the Home Economics group of the College of Agriculture. Students electing the Home Economics group should offer two points entrance credit in Chemistry and one point in Physics. A graduate of an accredited secondary school or academy on presenting a certificate is admitted without examination to any classes for which he is fully prepared. Any candidate for admission having credentials from a high school, college, or university not included in the list of schools accredited to this University should forward his credentials to the Registrar and be prepared to take such examinations as may be prescribed. If such credentials do not clearly show the number of weeks study and the number of recitations a week, together with the time devoted to laboratory work, if any, the prospective student should apply to the Registrar for blank credential slips. These should be properly filled out and returned, when he will be informed at once whether his credentials are or are not acceptable. Candidates for admission from an accredited school, but from which they have not graduated, will be required to take entrance examinations. These examinations are held during the regular week of registration.

**Adult Special Students.** Students of mature age, not candidates for degrees, may register in the College of Agriculture without conforming to the entrance requirements. The admission of adult special students is permitted after consultation with and upon the recommendation of the Dean. Such students must pay all necessary fees. Upon fulfilling the entrance requirements, adult special students may register as regular students, and become candidates for the degree.

**Registration.** Registration in the College of Agriculture takes place during the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. To promote prompt registration, a registration fee of \$3.00 is charged a student who, without good reason, fails to register within the days set aside for this purpose.\* A like fee is charged for the re-registration when made necessary by the student's fault; any change whatever in a registration once made is regarded as a re-registration. A

\* Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage, and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session.

student changing from one college to another must pay a new matriculation fee of \$5.00, and no student is allowed to make such a change without written permission to the Registrar from the Dean of each college concerned.

No student is allowed to change his group or drop any study for which he has been regularly registered without written permission from the Dean of the college. No regular student is permitted to register for less than twelve (12) hours nor more than eighteen (18) hours a semester without the Dean's permission. Students cannot attend classes for which they are not registered, and credit is not granted for studies pursued without registration. Any change in a student's residence must be immediately reported to the Registrar.

### FEES AND EXPENSES

**Fees.** All fees and charges are payable in advance to the Secretary of the University. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a class or from the University. The schedule fees in the College of Agriculture is as follows:

Matriculation (paid only on first registration).....	\$5.00
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Being a statutory fee, this cannot be refunded except when collected through error.

Non-resident (charged to each person not a resident of the state), each semester .....	15.00
Incidental, each semester .....	3.00
Library (charged to each student who does not pay a laboratory fee), each semester .....	1.00
Special registration (for late registration or re-registration).....	3.00
Special examination, each course .....	1.00
Diploma, first degree .....	5.00
Diploma, advanced degree .....	10.00
Additional Diploma fee if degree taken <i>in absentia</i> .....	10.00
Certificate .....	1.00

### LABORATORY FEES

Agricultural Chemistry—Course 1, \$3; 2, \$4; 3, \$1; 4, \$2.

Agricultural Engineering—Courses 1, 2, 11, \$3; 3, 5, 6, \$1; 4, 18, \$2; 9,  
10, 12, 16, \$4.

- Botany—Courses 1, 2, 21, 22, 25, 35, 36, 37, \$2; 13, 14, \$1; 6, 19, 20, \$3.  
 Chemistry—Courses 1, 2, \$5; 14, \$8; 3, \$10.  
 Civil Engineering—Courses 5a, 30, \$3.  
 Entomology—Courses 1, 2, 4a, 5, 6, 7, 8, \$2; 3, 4, 10, 11, 13, \$1.  
 Geography—Courses 1, 2, 6, \$1.  
 Geology—Course 1, \$1.  
 Home Economics—Courses 1, 2, 7, 8, 11, 12, 15, 16, \$2; 3, 4, \$3; 5, 6, \$5.  
 Physics—Courses 1a, 2a, \$1.  
 Physiology—Courses 1, 2, \$5.

**Expenses.** In Lincoln, board and lodging may be secured in private families from \$3.50 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and The Young Women's Christian Association of the University keep lists of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

### REQUIREMENTS FOR GRADUATION

**University Credits.** For the degree of Bachelor of Science, 125 University "credit hours" are required.\* No student is recommended for a degree who is not within 18 hours of this requirement at the beginning of his last semester. All graduates of the School of Agriculture are admitted to the College of Agriculture without examination. No such graduate shall be permitted to take a degree from the College of Agriculture who does not have at least the equivalent of four credit points in Language, two points of which may be accepted as entrance credit.

**Required Subjects.** Each candidate for the degree of Bachelor of Science in the College of Agriculture must complete the following subjects:

	Hours
Modern Language (French or German).....	10
Biology (Botany, Entomology or Zoology).....	10
Physical Science (Chemistry or Physics).....	8
Biological, Physical, or exact Science.....	10

\* A course receives one "credit hour" for each one-hour recitation or lecture and two-hours preparation or laboratory period it demands for each of the eighteen weeks of a semester.

	Hours
English (Rhetoric 1, 2, and 6 hours of Rhetoric or English Literature)	10
History, Political Science, Philosophy or Economics.....	6
Military Science for men or Physical Training for women.....	4
	<hr/>
	Total, 58

**Science Requirement.** No student will be granted a degree from the College of Agriculture who has completed less than 60 hours of science, which may include Agriculture or Home Economics. Students selecting the Agricultural group will be required to complete 40 hours of agricultural subjects, to be taken in not less than three departments. Students selecting the Forestry group will be required to complete 40 hours of Botany and Forestry. Students selecting the Home Economics group will be required to complete 30 hours of Home Economics.

**Military Drill Required.** Four hours of military science (courses A1, A2, AA1, AA2) are required of all men students. Only credibly attested physical disability, or membership in a religious organization whose creed forbids participation in warfare in any form (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved by the Chancellor, each undergraduate man must fulfill this requirement in his freshman and sophomore years. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Thorough drill elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

**Major Subjects.** Not later than the beginning of his second year each student in the College of Agriculture must select some one department of the college in which he will take a major of not less than 16 hours nor more than 35 hours.

**The University Teachers' Certificate** is granted only (1), to those who maintain an average of at least (80) per cent in their undergraduate work, and (2), show special fitness for teaching. Special requirements of this certificate are:

1. The candidate must hold the Bachelor's or Master's degree from the University.
2. Completion of Philosophy 1 and 2.

## 3. Completion of 15 hours in Education as follows:

	Hours
Education 1 and 2 (History of Education).....	6
Education 4 (Child Study) .....	3
Electives in Education .....	2
Home Economics 13 and 14 (accepted in place of Education, Theory and Practice 2 hours, Special Methods 2 hours).....	<u>4</u>
	Total, 15

4. A major of not less than 20 hours and a minor of not less than 12 hours may be taken in the subjects of Domestic Science and Domestic Art.

**The City State Teachers' Certificate for Supervisors in Home Economics.** The requirements for this certificate are the same as above except that 12 hours instead of 15 hours are required in Education, and instead of 6 hours of History of Education 1 and 2, only three hours of this course or its equivalent in Educational Classics are required.

**Advisers.** At the time of his first registration each Freshman student in the College of Agriculture is assigned by the Dean to some member of the Faculty, who becomes his adviser during the Freshman year. When, at the beginning of his second year, a major subject is chosen, the head of the department in which the major work is taken becomes the adviser of the student until the time of his graduation. The dean of the college constitutes a head adviser for each student within the college. The Adviser to Women is a special adviser to all women students in the college.

**Absence or Withdrawal.** A leave of absence for a short time may be granted a student by the Dean. This leave is merely a justification for absence and not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

## ORDER OF COURSES IN THE GROUPS OF STUDY

## THE AGRICULTURAL GROUP

	FIRST YEAR	1st Semester Hours	2d Semester Hours
* Agricultural Subjects .....		3	3
Biology (Botany,† Entomology or Zoology‡) (A and S)		3	3
Chemistry 1, 2, (A and S) ‡.....		2	2
French or German (A and S) ‡.....		5	5
Rhetoric 1, 2 (A and S) ‡.....		2	2
Military Drill .....		1	1
	—	16	16
SECOND YEAR			
* Agricultural Subjects .....		3	3
French or German (if four points foreign language have not been offered for entrance on admission to the college), or Natural, Physical or Exact Science or Agricultural Subjects .....		5	5
Rhetoric 5 and 6 or English Literature (A and S) ‡....		3	3
Chemistry 3 or Physics 1a and 2a, Biology (Botany, Entomology or Zoology) (A and S) ‡.....	5 or 4		4
Military Drill .....	1		1
	—	17 or 16	16
THIRD YEAR			
* Agricultural Subjects .....		7	7
Electives .....		6	5
History, Political Economy or Philosophy (A and S) ‡..		3	3
	—	16	15

\* The "Agricultural Subjects" include Agricultural Botany, Agricultural Chemistry, Agricultural Engineering, Agricultural Geology, Agronomy, Animal Husbandry, Dairy Husbandry, Forestry, Geography, Horticulture, Economic Entomology, Agricultural Education.

† Graduates of the School of Agriculture who have completed, in botany, 9 hours' work in class and practice, shall take Botany 3 and 4; others shall take courses 1 and 2.

‡ Required courses not given in the College of Agriculture are marked with the initials of the college in which they are offered; e. g., (A and S) indicates that the subject is offered in the College of Arts and Sciences, (E) refers to the College of Engineering.

	FOURTH YEAR	1st Semester Hours	2d Semester Hours
† Agricultural Subjects .....	7	7	
Electives .....	8	8	
	—	—	
	15	15	

## FORESTRY GROUP

## FIRST YEAR

Botany 1, 2.....	3	3
German 1, 2 (A and S) *.....	5	5
Geography 1, 2.....	2	2
Chemistry 1, 2 (A and S) *.....	2	2
Rhetoric 1, 2 (A and S) *.....	2	2
Forestry 1, 2.....	2	2
Military Drill .....	1	1
	—	—
	17	17

## SECOND YEAR

Botany 13, 14 .....	2	2
Rhetoric 5, 6 (A and S) *.....	3	3
† Political Economy 17, 1 (A and S) *.....	(3)	3
Physics 1a, 2a (A and S) *.....	2	2
Dendrology (Botany 35, 36).....	2	3
Mathematics 1 (A and S) *.....	5	
Lettering and Drawing (Applied Mech. 10) (E) *.....	2	
Military Drill .....	1	1
	—	—
	17	14

## THIRD YEAR

Botany 19, 20 .....	3	3
Surveying 5, 5a, 30 (E) *.....	4	3
Botany 6 (A and S) *.....		3
Soils (Agronomy 7, 9).....	4	
Forestry 7, 8.....	2	2
Entomology 1, 2.....	3	3
Geography 4 .....		2
	—	—
	16	16

\* See third note at bottom of page 284.

† See foot-note (†) on page 284.

	FOURTH YEAR	1st Semester Hours	2d Semester Hours
Botany 21, 22 (A and S) *	.....	2	2
Study of Woods (Botany 37)	.....	3	
Timber Physics (Applied Mech. 20) (E) *	.....		3
Forestry 11, 12	.....	3	3
Forestry 15, 16	.....	3	3
Geology 1 (A and S) *	.....	3	
† Zoology 1 (A and S) *	.....	(3)	
† Forest Zoology 14 (A and S) *	.....		(2)
† Electives	.....		(3)
		—	—
		14	11

## HOME ECONOMICS GROUP

## FIRST YEAR

Home Economics 1, 2 (Sewing and Design) .....	3	3
Rhetoric 1, 2 (A and S) *	2	2
Chemistry 1, 2 (A and S) *	2	2
Language, Ancient or Modern (A and S) *	5	5
Botany, or Zoology (A and S) *	3	3
Physical Training .....	1	1
	—	—
	16	16

## FIRST YEAR FOR STUDENTS WHO HAVE NO ENTRANCE CREDIT IN CHEMISTRY

Home Economics 1, 2 (Sewing and Design) .....	3	3
Rhetoric 1, 2 (A and S) *	2	2
Physical Training .....	1	1
Chemistry A, B, (A and S) *	3	3
Language (Ancient or Modern) (A and S) *	5	5
Agricultural Engineering 5, 6 (Wood-work, Interior Finish) .....	1	1
	—	—
	15	15

\* See third note at bottom of page 284; (E) refers to the College of Engineering.

† These subjects are elective, and on consultation with the head of the department may be selected towards the 125 hours of credit necessary for graduation.

	SECOND YEAR	1st Semester Hours	2d Semester Hours
Home Economics 3, 4 (Foods: Selection and Preparation) .....	3	3	
Chemistry 3 (Organic) (A and S) *.....	5		
Chemistry 14 (Food and Sanitary) (A and S) *.....			5
Physiology 1, 2 (A and S) *.....	2		2
English Literature 1, 2 (A and S) *.....	3		3
Physical Training .....	1		1
Physical Education 9 (Emergencies—First Aid).....	1		
	—	15	—
			14
THIRD YEAR			
Home Economics 5, 6 (Advanced Cookery).....	3		3
Home Economics 7, 8 (Industrial Art):.....	3		3
Bacteriology 2a (A and S) *.....			2
† Philosophy, Sociology, or Political Economy (A and S) * .....	3		3
Electives .....	7		5
	—	16	—
			16
FOURTH YEAR			
Home Economics 9, 10 (Household Administration).....	2		2
Education 4 (Child Study) (A and S) *.....	3		
Greek 40 (Interpretation of Art) (A and S)*.....	2		
History .....	3		3
Electives .....	6		11
	—	16	—
			16

\* See third note at bottom of page 284.

† Philosophy 1 and 2 required of candidates for the teachers' certificate. See page 282.

## COURSES OF INSTRUCTION

Students are advised to consult the heads of departments before registering.

For additional courses that may be chosen to apply as "Electives" see the general "Courses of Instruction" of the College of Arts and Sciences, the College of Engineering, and the Teachers College.

Courses included between brackets are not given in 1912-1913.

### AGRICULTURAL BOTANY

Head Professor Wileox, Adjunct Professor Link

#### GENERAL INFORMATION

The office, laboratories and lecture room are located in Agricultural Hall. For use in the lectures, the department has a very extensive collection of lantern slides, charts and other illustrative material. An extensive pathological herbarium and collection of economic plants are being developed as rapidly as possible. The large private library of the professor of Agricultural Botany, particularly complete in phytopathology, is available for the use of advanced students. A greenhouse has recently been arranged and equipped for experimental work in physiology and pathology.

In connection with the Nebraska Seed Laboratory, maintained in co-operation with the United States Department of Agriculture, advanced students may secure practical training in seed testing. A limited number of advanced students with proper training can be offered exceptional opportunities for research work in phytopathology. In many cases it is possible for such students to receive compensation for work done in connection with problems being investigated by the department.

#### GRADUATE WORK

This department is especially prepared to offer graduate work in phytopathology and phytophysiology. To successfully undertake research work in this subject, students should have a broad training in general botany, chemistry and zoology; should be able to read French and German and should have taken Agricultural Botany 1, 2 and 3, 4. Before registration students should consult the head of this department. For courses of study see Bulletin of the Graduate College.

#### FOR UNDERGRADUATES AND GRADUATES

1. **Elementary Plant Pathology**—A broad survey of the development and present condition of our knowledge of plant disease. Special atten-

tion will be given to diseases having their origin in malnutrition and unfavorable chemical and physical factors. The most typical and important diseases of our leading cultivated plants will be described in some detail. The laboratory work will acquaint the student with the current technique, including the preparation and use of culture media, the establishment of pure cultures and artificial inoculation. Three hours lecture. Six hours laboratory. Three hours credit. Students are advised to take General Botany 15, 16 and 19, 20 before or with this course. Wilcox.

2. **Elementary Plant Pathology**—1 continued. Second semester.

3. **General Plant Pathology**—Prerequisite: Agricultural Botany 1, 2. An advanced course of lectures designed to furnish such a broad working basis as to enable one to engage in original research in plant pathology. The following are some of the subjects to be discussed: The physiology and cytology of resistance and immunity, origin of parasitism, specialization, epidemics and climatic factors, etc. Two hours lecture. Four hours reading. Two hours credit. First semester. Wilcox

4. **General Plant Pathology**—3 continued. Second semester.

5. **Seed Testing**—Methods of seed analysis, including quantitative and qualitative methods of making purity determinations. Identification of foreign seeds. Liability and purity tests of the seeds of the principal cereals, forage crops, and horticultural crops. One hour lecture. Six hours laboratory. Three hours credit. First semester. Wilcox

6. **Seed Testing**—5 continued. Second semester.

7. **Forest Plant Pathology**—A special course designed to furnish information as to the principal diseases of forest trees. Three hours lecture. Four hours laboratory. Three hours credit. First semester. Wilcox

#### SCHOOL OF AGRICULTURE COURSES

A. **Elementary Agricultural Botany**—This course offers a general introduction to the science of botany. The students will become acquainted with the general morphology of the flowering plants. This will be accompanied by laboratory studies of the structure and activities of the plant cell and the principal tissues. Two hours lecture. Two hours laboratory. First semester. Wilcox, Link

B. **Elementary Agricultural Botany**—Elementary study of types of plants selected as far as possible with reference to their economic value in agriculture. Two hours lecture. Two hours laboratory. Second semester. Wilcox, Link

**C. Elementary Plant Physiology**—An elementary study of the growth, nutrition, irritability and reproduction of plants with special reference to the application of these facts to plant culture. Two hours lecture. Two hours laboratory. First semester.

Wilcox, Link

**D. Elementary Plant Pathology**—An elementary study of the more common diseases of cultivated plants; the best methods of controlling these by spraying, proper methods of cultivation, use of resistant varieties, etc., will be discussed. Two hours lecture. Two hours laboratory. Second semester.

Wilcox, Link

**E. Home Economics Botany**—This course offers a general introduction to the science of botany. The students will become acquainted with the general morphology of the flowering plants. This will be accompanied by laboratory studies of the structure and activities of the plant cell and the principal tissues. Two hours lecture. Two hours laboratory. First semester.

Link

**F. Home Economics Botany**—An elementary study of the bacteria, yeasts and fungi in the home. Two hours lecture. Two hours laboratory. First semester.

Link

### GENERAL BOTANY

Head Professor Bessey, Associate Professor Pool, Adjunct Professor Walker

**1. General Botany**—Introduction to structure of plants (cells, tissues, tissue systems). General morphology, physiology, and classification of representative species, including blue-green and green algae. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Bessey, Walker

**2. General Botany**—The general morphology, physiology and classification of representative species of brown algae to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Bessey, Walker

**13. Flowering Plants**—Principles of the classification of Monocotyledons and their particular application to the grasses. Two hours lecture. Four to twenty hours laboratory work in the field and herbarium. Two to six hours credit. First semester.

Bessey, Pool

**14. Flowering Plants**—Principles of the classification of Dicotyledons and their particular application to the Composites. Otherwise as in course 13. Second semester.

Bessey, Pool

**15. Mycology**—A study of the fungi and of Mycological literature;

classification; physiology, life history, parasitism, symbiosis, heteroecism, mycorhiza, laboratory and field work. Three lectures, eight hours laboratory. Three hours credit. First semester. Pool, Walker

16. **Mycology**—The role of fungi in the production of plant diseases, bacterial diseases, epidemics, physical and climatic factors, pathological technique. Three lectures, eight hours laboratory. Three hours credit. Second semester. Pool, Walker

19. **Plant Physiology**—An introductory study of the processes and functions of plants. Including imbibition; osmosis, absorption; the relation of the soil and of solutes to the plant; the movement of substances in the plant body; transpiration; guttation; bleeding; maintenance and bodily form; turgor; secretion, waste products. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Pool

20. **Plant Physiology**—Photosynthesis; the question of the manufacture and assimilation of food; stomatal relations; the nitrogen cycle; the storage and digestion of foods; respiration and fermentation; growth and movement with special reference to the influence of external factors upon these phenomena; irritability; stimulus and response; correlation; reproduction of plants; death. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Pool

21. **Plant Ecology**—The relation of plants to their environment; adaptation; alternation and zonation; factors of the habitat; use of ecological instruments. Two lectures, six hours laboratory. Two hours credit. First semester. Pool

22. **Plant Ecology**—Mostly field work, with detailed studies and accurate observations. Two lectures, six hours laboratory or field work. Two hours credit. Second semester. Pool

25. **Forest Mycology**—A study of the fungi which attack forest trees: the role of fungi in the decay of timber. Two lectures, six hours laboratory or field work. Two hours credit. First semester. Pool

### AGRICULTURAL CHEMISTRY

Head Professor Alway, Adjunct Professor Trumbull, Mr. Ludden

All courses in the department are given in Experiment Station Hall.

The work offered by the Department of Agricultural Chemistry is either research or direct preparation for research. In general only graduates, or undergraduates in their senior year, are prepared for this work, which is largely individual and the nature of which depends largely upon the student's previous work in chemistry, geology, physics and soils.

## UNDERGRADUATE WORK

Courses 2, 4, 5, 6, and 8 are open to undergraduates who previously have had sufficient training. On account of the varied nature of the problems presenting themselves in agricultural chemistry students are urged to acquire as thorough a training as possible in inorganic, organic, analytical, and physical chemistry before specializing in this department. Only those whose training in pure chemistry has been thorough may hope to succeed in dealing with problems in agricultural chemistry.

## GRADUATE WORK

Courses 2, 4, 5, 6, and 8 outlined below are primarily for graduates. In addition to these courses, graduate students may select problems in the chemistry of plants. The nature of the problem assigned to any particular student depends both upon his previous training and upon the lines of investigation in progress at the Experiment Station.

## FOR UNDERGRADUATES AND GRADUATES

**2. Analysis of Agricultural Products**—A course in the quantitative analysis of grain, flour, fruit, dairy products and fodders. Prerequisite: Courses 1, 2, 3, 7, and 8 in Chemistry or their equivalent. One hour attendance. Five hours laboratory. Two hours credit. Second semester.

Alway

**4. Analysis of Soils and Fertilizers**—A course in the quantitative chemical analysis of soils and fertilizers. Prerequisite: Courses 1, 2, 3, 7, and 8 in Chemistry, or their equivalent. One hour attendance. Five hours laboratory. Two hours credit. Second semester.

Alway

**5. Research in the Chemistry and Physics of Soils**—The investigation in the field, in the laboratory, or in both, of some problem in soil chemistry or soil physics. Prerequisite for undergraduates: Courses 7, 8, 9, and 10 in Agronomy. Two to five hours credit. First semester.

Alway

**6. Research in the Chemistry and Physics of Soils**—5 continued. Second semester.

**8. Chemical and Physical Properties of Soils**—An advanced course on the chemical composition and physical properties of soils. This course is open to only those who have already taken courses 5 or 6 or who are taking course 6. Three hours credit. Second semester.

Alway

## SCHOOL OF AGRICULTURE COURSES

**A. Elementary Agricultural Chemistry**—General principles of chem-

istry. Special emphasis upon chemistry of agriculture. Three hours lecture. Four hours laboratory. First semester. Trumbull

B. **Elementary Agricultural Chemistry**—A continued. Second semester.

## AGRICULTURAL EDUCATION

Head Professor Hunter

1. **Agricultural Pedagogy**—The educational value of industrial, and especially agricultural training; industrial training as applied to Nebraska and Nebraska problems; the part which the schools, rural and town, should take in education for rural life; courses of study and material for agricultural instruction in both rural and high schools; study of the preparation of the teachers of this work. Junior or senior year. First semester. Two hours attendance. Two hours credit. Hunter

## AGRICULTURAL ENGINEERING

Head Professor Chase, \*Adjunct Professor Shedd, Mr. Baer, \*Mr. Sjogren

FOR UNDERGRADUATES

1. **Farm Machinery**—The practical study of all lines of agricultural implements, tillage, grading, seeding, harvesting, threshing and fertilizing machinery. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. First semester.

2. **Farm Motors**—The practical study of farm motors, the horse, windmill, steam boilers, steam engines, traction engines, gasoline engines, electric motors. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. Second semester.

5. **Wood Work and Interior Finishing**—Practice at the bench with light carpenter tools and the care of edged tools for the home. Work in the construction of furniture, painting, oiling, and finishing the same. Instruction in the planning of the home, the designing, selecting and care of the interior finish. One hour attendance. Two hours practice. One hour credit. For women only. First semester. Baer

6. **Spraying Machinery**—The designing of spraying outfits, practice with the gasoline engine, mixers and pumps and a study of nozzles. Three hours laboratory. One hour credit. First semester. Chase

9. **Carpentry**—Practice with the care, use and adjustment of tools, exercises in bench work, farm equipment and farm building construc-

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\* Resigned.

tion. Lectures on the cutting, selecting, milling and durability of timbers. One hour attendance. Eight hours laboratory. Three hours credit.

Baer, ——

**10. Forge Work**—Practice in forging, welding, tempering, pipe fitting, babbitting, chipping and repairing of farm machinery. Lectures on metallurgy of iron and steel, on wheelwright and shoeing. One hour lecture. Eight hours attendance. Three hours credit.

Sjogren

**13. Perspective Drawing of Landscape**—Lessons in the use of instruments and perspective drawing. Perspective drawing of buildings and landscapes. Primarily for students in horticulture specializing in landscape architecture. Three hours attendance. One hour credit. First semester. (*Given in 1912-1913 and alternate years.*) Chase

**18. Wood Work and Interior Finishing**—Continuation of course 5 but with hard woods. Prerequisite: Course 5. One hour attendance. Two hours practice. One hour credit. Second semester.

Baer

#### FOR UNDERGRADUATES AND GRADUATES

**3. Rural Architecture**—The laying out of farms, the study of houses, barns, granaries, sheds, fences, equipment, etc. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. First semester.

Chase

**4. Farm Drainage and Rural Highways**—A study of methods of drainage, estimates, laying out drainage systems, etc. A study of the highways of Nebraska, construction and reconstruction, haulage, and highway laws. The first half of the time of this course is given to drainage, and the second to highways. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. Second semester.

Chase, ——

**7. Research Work in Rural Architecture, Farm Drainage and Rural Highways**—The wide range of these subjects offers a great field of original investigation: Drainage, water supplies, heating, fencing, building materials, sewerage, road construction, etc. Prerequisite: Courses 3 and 4 From six to fifteen hours laboratory or reading. From two to five hours credit.

Chase, ——

**8. Research Work in Farm Machinery, Farm Motors and Farm Equipment**—The large equipment of machinery in the department gives an excellent opportunity for testing both in the laboratory and in the field, standardizing, traction tests, calibration and economic tests of both farm

machinery and farm motors. Prerequisite: Courses 1 and 2. From six to fifteen hours laboratory or reading. From two to five hours credit.

Chase, ——

**11. Advanced Farm Machinery**—Laboratory work in the testing of field machines under various conditions. The testing of grinders, shellers, twine, etc. Perequisite: Course 1. Six hours laboratory. Two hours credit. First semester. ——

**12. Advanced Farm Motors**—Complete tests of farm motors, both in the field and laboratory. Prerequisite: Course 2, Mechanical Engineering 10, and in connection with Mechanical Engineering 16. Six hours laboratory. Two hours credit. ——

#### SCHOOL OF AGRICULTURE COURSES

**A. Wood Work**—Practice with the care, use and adjustment of tools. Exercise in bench work. Four hours attendance. First term. Baer

**B. Wood Work**—Farm building construction. Prerequisite: Course A. Four hours attendance. Second term. Baer

**C. Forge Work**—Practice in forging, welding, tempering, pipe fitting, babbittting, and repairing of machinery. Four hours attendance. First term. Sjogren

**D. Forge Work**—Continuation of course C. Prerequisite: Course C. Four hours attendance. Second term. Sjogren

**E. Farm Machinery**—A study of all lines of agricultural implements, tillage, grading, seeding, harvesting, pumping, and fertilizing machinery. One hour attendance. Three hours laboratory. Chase, ——

**F. Farm Motors**—Continuation of course E with the addition of work with windmills, steam boilers, steam engines, gasoline engines, and traction engines. The determination of brake horse power and other tests in farm motors. One hour attendance. Three hours laboratory. Chase, ——

**G. Rural Architecture**—The laying out of farms, the study of houses, barns, granaries, sheds, fences, equipment, water systems, sewerage, heating, etc. Practice at drawing and designing. One hour attendance. Two hours designing. Chase, ——

**H. Rural Architecture**—Continuation of course G. One hour attendance. Two hours designing.

**I. Wood Work and Finishing (Girls)**—Practice with use, care, and adjustment of tools. Interior construction. Painting, oiling, and staining of woods. One hour attendance. Two hours practice. First term. Baer

**J. Wood Work and Finishing** (Girls)—Continuation of course I. One hour attendance. Two hours practice. Second term. Baer

## AGRONOMY

Associate Professor Barker, Assistant Professor Hopt, Mr. Young,  
Instructor

Students should have at least one year's work in Botany, Chemistry and Geology. Courses are offered to meet the needs of (1) those students taking general culture courses, or interested in farm operations or the management of land; (2) those fitting themselves to be agricultural teachers or investigators.

Excellent opportunities are offered for graduate students who desire to take up research work. Training in natural and physical sciences is necessary for students taking graduate work. Lines of research work are open to students of this class upon consultation with the head of the department.

### FOR UNDERGRADUATES AND GRADUATES

**1. Forage Crops**—Classification, method of improvement of forage crops, their adaptability and distribution, methods of seeding and harvesting, treatment of pastures. Three hours attendance. Six hours preparation. Three hours credit. First semester. Hopt

**2a. Cereal Crops**—Classification and methods of improvement of cereal crops, their adaptability and distribution, time and methods of seeding, harvesting, and cultivating. To be taken in connection with course 2b. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Hopt

**2b. Grading and Judging Grains**—Laboratory practice in describing, scoring, judging and inspecting cereals by outlines and score cards. Methods of breeding to improve these cereals. To be taken in connection with course 2a. Four hours laboratory. Two hours preparation. Two hours credit. Second semester. Hopt and Assistants

**5. Advanced Field Crops**—Study of methods of crop treatment, commercial grading of grains and hays—lectures, laboratories and readings. Prerequisite: Courses 1, 2a, 2b, 7 and 9. Three to fifteen hours work. One to five hours credit. First semester. Hopt

**6. Advanced Field Crops**—5 continued. Second semester.

**7. Soils**—Origin, nature and properties of soils, their relation to plant growth and crop production. Should accompany course 9. First and

second semester. Two hours attendance. Four hours preparation. Two hours credit. Barker

8. **Soils**—7 continued. Second semester.

9. **Soil Physics**—Physical properties, weight, pore space, specific gravity, soil moisture, soil temperature, effect of various forms of tillage on plant growth. Should accompany course 7. Laboratory, two to eight hours attendance. One to four hours preparation. One to four hours credit. First and second semesters. Barker, Young and Assistants

10. **Soil Physics**—9 continued. Second semester.

11. **Soil Management**—Principles governing the management of land, crop system, tillage, rotations, manuring, fertilizing, drainage and aeration. Prerequisite: Courses 1, 2a, 7 and 9. Two hours attendance. Four hours preparation. Two hours credit. First semester. Barker

11a. **Soil Management Laboratory**—Given in connection with 11. Treating of principles governing the management of land from the practical standpoint. Four hours attendance. Two hours preparation. Two hours credit. First semester. Barker

12. **Soils of the United States**—A brief study of each of the fourteen soil Provinces as surveyed by the Bureau of Soils. The characteristics of the various soil types of the United States as to plant production will be considered. The soils of the corn belt and Nebraska soils are especially emphasized. Prerequisites: Courses 7 and 9. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Barker

13. **Advanced Soils**—Factors influencing the productive capacity of lands. Lectures, readings, and laboratory. Credit according to work. To be arranged with head of department. Prerequisite: Courses 1, 2a, 7 and 9. First semester. Barker

14. **Advanced Soils**—13 continued. Second semester.

15. **Crop Management**—A practical course for the student who expects to operate a farm or manage farms for other people. Dealing with the management of various farm crops. Primarily designed for school of agriculture credit. Two hours attendance. Four hours preparation. Barker

#### SCHOOL OF AGRICULTURE COURSES

A. **Crop Management**—Adaptation, improvement, production and best use of the principal cereal and forage crops with special reference to Nebraska conditions. Three hours attendance. First semester. Hopt

B. **Crop Management**—A continued. Second semester.

**C. Crop Laboratory**—Must be taken with A. Identification of the plants, fruits and seeds of the more common field crops of Nebraska, including the important cereals, forage grasses and legumes. Judging and commercial grading of the cereals. Selection, care and testing which make for pure viable seed. Common field crop enemies and means of combating same. Four hours laboratory. First semester. Hopt and Assistants

**D. Crop Laboratory**—C continued. Must be taken with B. Second semester.

**E. Advanced Crop Laboratory Practice**—An optional course for students wishing to go further into field crop study than is possible in the more elementary courses A, B, C, and D. Of especial interest to men who wish to raise seed for others as well as for themselves, or who desire to grow new varieties or improved strains to meet peculiar local conditions. Two hours laboratory. First semester. Hopt

**F. Advanced Crop Laboratory Practice**—E continued. Second semester.

**G. Soil Tillage and Farm Management**—Origin, deposition and natural transportation of soils, physical and chemical constitution of soils and subsoils, size and structure of soil particles in relation to drainage, aeration, water storage and capillarity. Two hours attendance. First semester. Barker

**H. Soil Tillage and Farm Management**—G continued. Second semester.

**I. Soil Laboratory**—Must be taken with G. Formation of soils from rocks, study of texture and its influence on plant growth. Humus, soil moisture, movement of air, specific gravity and volume weight. Two hours laboratory. First semester. Barker, Young and Assistants

**J. Soil Laboratory**—I Continued. Must be taken with H. Second semester.

**K. Principles of Soil Management**—Soil as a medium for crop growth, soil moisture, plant food, air and temperature of the soil; farm manures, drainage, limeing alkali soils. Designed for those who wish to elect more soil work in the senior year than that accomplished in courses G, H, I and J. Two hours attendance. First semester. Barker

**L. Principles of Soil Management**—K continued. Second semester.

**M. Soil Laboratory**—Must be taken with K. More advanced work in soil physics. Designed for students who wish a more thoro knowledge of

soils than that gained in the work of the Junior year. Two hours laboratory. One hour credit. First semester. Barker, Young and Assistants

N. **Soil Laboratory**—M continued. Must be taken with L. Second semester.

### EXPERIMENTAL AGRONOMY

\*Professor Montgomery, Associate Professor Kiesselbach

The courses offered in this department are intended primarily for those desiring to take up advanced work in Agronomy. Extensive lines of investigation are under way and opportunity is offered to work up some special line. All general courses in Farm Management are prerequisite. Students taking this work are expected to spend the summer season on the experimental farm, for which a moderate compensation is allowed. Only a limited number of students can be accommodated.

1. **Investigation**—Satisfactory work on some special line of investigation with assigned readings. Six to twenty hours laboratory. Thesis required. Two to five hours credit. First semester. Kiesselbach

2. **Investigation**—Continuation of 1. Second semester.

3. **Methods of Investigation**—Compilation of experimental data. Correlation tables. Statistical methods. Six to twenty hours laboratory. Two to five hours credit. Kiesselbach

4. **Methods of Investigation**—Continuation of 3. Second semester.

### ANIMAL HUSBANDRY

\*Professor Smith, Assistant Professor Rail, Assistant Professor Lee,  
Mr. —————

#### PRIMARILY FOR UNDERGRADUATES

1. **Judging Live Stock**—Practice with the score card. Competitive judging of market types, by ages, of cattle and swine. Four hours attendance. Two hours preparation, Craig's "Judging Live Stock." Two hours credit. First semester. Rail, —————

2. **Judging Live Stock**—Practice with the score card and competitive judging of market classes of horses and sheep. Four hours attendance. Two hours preparation, Craig's "Judging Live Stock." Two hours credit. Rail, —————

3. **Breeds of Live Stock**—History of different breeds of live stock.

\* Resigned.

Methods in development of breeds. Characteristics and adaptability of improved breeds. Two hours attendance. Four hours preparation. Two hours credit. First semester. Rail, ——

**4. Animal Nutrition**—Elementary live stock feeding. Methods of feeding all classes of farm animals. The compounding of rations. Three hours attendance. Six hours preparation. Three hours credit. Second semester. ——, Lee

**5. Animal Nutrition**—Advanced course. General composition of animal body. Composition and digestibility of foods. Digestion, absorption, and excretion. Influence of food on animal form and on qualities of meat and milk. Methods employed in conducting experiments in feeding. Two hours attendance. Four hours preparation. Two hours credit. First semester. Prerequisite: Course 4. ——, Lee

**6. Principles of Animal Breeding**—Theory and practice of animal breeding. Variation, correlation, heredity, prepotency, and selection. Grading, crossing, line breeding, inbreeding, and pedigrees. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Prerequisite: Zoology 1. ——, Rail

**7. Judging Live Stock**—Advanced course in judging, with especial attention given to the study of breed type. Two hours attendance. One hour preparation. One hour credit. First semester. Prerequisite, 1 and 2. ——, Rail

**8. Judging Live Stock**—Continuation of 7 and should be preceded by it. Two hours attendance. One hour preparation. One hour credit. Second semester. ——, Rail

**9. Judging Live Stock**—Continuation of 7 and 8, with special attention given to comparison and judging of animals of different ages and also of group judging. Two hours attendance. One hour preparation. One hour credit. First semester. ——, Rail

**10. Animal Nutrition**—Seminar. Prerequisite, 4 and 5. Two hours attendance. Two hours preparation. One hour credit. Second semester. ——, Lee

#### SCHOOL OF AGRICULTURE COURSES

**A. Judging Live Stock**—Practice with the score card. Competitive judging of market types and classes, by ages, of cattle, sheep, and swine. Selecting animals for feeding purposes. Also judging meat carcasses. Four hours laboratory. First semester. Rail

**B. Breeds of Live Stock**—History of different breeds of live stock;

methods of development of breeds; characteristics and adaptability of improved breeds. Four hours attendance. Second semester. Rail

C. **Judging Live Stock**—Judging of breeds of horses, cattle, sheep, and swine by comparative methods. Special attention given to breed type and breed characteristics of animals. Four hours laboratory. Second semester. Rail

D. **Feeding Animals**—Elementary live stock feeding; methods of feeding all classes of farm animals; the compounding of rations. Four hours attendance. Second semester. Lee

E. **Judging Live Stock**—Advanced course for third year students. Prerequisite: Courses A and C. Four hours laboratory. Second semester.

F. **Principles of Animal Breeding**—Elective. An elementary study of fundamental principles of reproduction, heredity, variation, selection, and prepotency; also a consideration of practical problems in animal breeding. Two hours attendance. First semester. Lee

G. **Principles of Animal Breeding**—Continuation of F. Two hours attendance. Second semester.

### ANIMAL PATHOLOGY

Professor Gain, Assistant Professor Sturdevant

2. **Diseases of Farm Animals**—Causes and prevention of animal diseases. Emergency treatment and minor surgery. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Gain

### SCHOOL OF AGRICULTURE COURSES

A. **Anatomy and Physiology**—Study of skeletons of horse and cow. Anatomy of digestive system and physiology of digestion. Circulatory system and study of blood. Two hours attendance. First semester. Sturdevant

B. **Anatomy and Physiology**—Respiration. The nervous system. The senses. The foot. Generation and development. Two hours attendance. Second semester. Sturdevant

C. **Diseases of Farm Animals**—Hereditary diseases. Diseases of respiratory system. Prevention of digestive diseases. Minor emergency surgery. Prerequisite: Anatomy and Physiology A and B. Three hours attendance. First semester. Gain

D. **Diseases of Farm Animals**—Contagious diseases. Hygiene and

Farm Sanitation. Three hours attendance. Three hours credit. Second semester. Gain

E. **Elements of Physiology**—Bones of skeleton. Digestion. The circulatory system. Respiration. The senses. Drugs and stimulants. Two hours attendance. First semester. Sturdevant

F. **Hygiene and Sanitation**—Personal hygiene. Domestic hygiene. Ventilation and water supply. Public hygiene. Two hours attendance. Second semester. Sturdevant

(Offered in the course for women in the School of Agriculture.)

### DAIRY HUSBANDRY

Head Professor Frandsen, Adjunct Professor French, Mr. —————

1. **Milk Production**—This course covers the field of Dairy Husbandry in its relation to the producer. It consists of two lectures a week and one laboratory period devoted to judging of Dairy Cattle. The lectures cover matter relating to the leading breeds of dairy cattle, their characteristics and adaptation for dairy purposes; the selection, breeding and building up of the dairy herd; selection of the dairy sire; calf raising; proper care of dairy cattle; the dairy barn; use of silo; a thorough study of the composition and relative food value of the leading dairy feeds and the feeding of dairy animals with special reference to economical milk production. Instruction in judging dairy cattle will consist of a study of the dairy type and characteristics of the various dairy breeds. Two hours attendance. Three hours laboratory. Three hours credit. First semester.

Frandsen, French

2. **Butter Making**—This course includes a general study of milk secretion; composition of dairy products, separation and acidity of milk. The preparation of starters, ripening of cream, churning, and the packing of butter. Two recitations and one laboratory period. Two hours attendance. Three hours laboratory. Three hours credit. Second semester.

Frandsen, —————

3. **Milk Testing and Inspection**—This course consists of a study of Babcock's test for fat in milk and cream. It includes work with the various tests for moisture in butter, also a careful study of the methods for detecting preservatives and adulterations in dairy products, as well as the best methods of taking samples and of testing individual cows. This course also includes a careful study of the requirements necessary for the production of sanitary and certified milk. This course consists of one lecture

and one laboratory period per week. One hour attendance. Three hours laboratory. Two hours credit. Frandsen, French

**4. Dairy Judging**—The object of this course is to enable the student to fix in his mind the types of cattle that are profitable producers of dairy products. The greater part of the work is done by comparative judging, using the Ayrshires, Guernseys, Holsteins and Jerseys of the College herd and those of nearby herds. Three hours laboratory. One hour credit. Second semester.

**5. Advanced Dairy Judging**—A continuation of course 4. One hour preparation and two hours laboratory. One hour credit. Second semester. Frandsen, —

**6. Ice Creams and Ices**—Elective in the Agricultural and Home Economics course. This course consists of a study of the manufacture of ice cream and ices. One hour preparation and one laboratory period. One hour credit. Second semester. Frandsen

**8. Domestic Dairying**—This course is especially arranged for students of the Home Economics course. The object of this course is to give the student some practical as well as scientific knowledge concerning the care and preparation of dairy products for food purposes. The course includes lectures and laboratory work on the care of milk and cream; testing for fat, acidity, adulteration, preservatives and the general purity of milk and cream. Some work is also given in the manufacture of butter, cheese and ice creams. One hour attendance. Three hours laboratory. Two hours credit. Second semester. Frandsen

**10. Dairy Seminar**—Elective in the senior year of the agricultural course. This work consists of a study of the work accomplished by the various experiment stations, also review of the best foreign dairy literature. One hour attendance. One hour credit. Second semester. Frandsen

#### SCHOOL OF AGRICULTURE COURSES

**A. Milk Production**—The object of this course is to give practical instruction regarding the dairy cow on the farm, including adaptation of breeds, selection of breeds for various purposes, selection of individual cows by type and by butter fat records; general care and management. The Ayrshires, Holsteins, Guernseys and Jerseys of the College herd are used in demonstrating work in this course. Two lectures and four hours laboratory. First semester. French

**B. Farm Dairying**—Includes lectures on milk secretion; composition of dairy products, separation and acidity of milk. The preparation of

starters and ripening of cream, churning and packing of butter. Two lectures and two hours laboratory. First semester. Frandsen, ——

**C. Milk Testing and Inspection**—This course includes practical work with Babcock's test of milk and cream. It also includes some work in testing for moisture in butter. This course also includes a careful study of the requirements necessary for the production of sanitary and certified milk. Two lectures and two hours laboratory. Second semester.

French, ——

## ENTOMOLOGY

Head Professor Bruner, Associate Professor Swenk, Mr. Dawson

Courses 1 and 2 are open to all students, and they, or their equivalent, must precede all other courses in Entomology except 3, 4, 4a, 9 and 10. Courses 3 and 4, or 4a, must precede courses 7 and 8. For graduate courses see Bulletin of the Graduate College.

### PRIMARILY FOR UNDERGRADUATES

**1. General Entomology**—A general survey of the class Insecta, with introductory lectures on arthropod structure, physiology, transformations, distribution and behavior, followed by a consideration of the characteristics of the orders, suborders and principal families of insects, and the life-histories and habits of typical species. Laboratory dissections of typical forms of the various orders, correlated with the lectures. Three hours attendance. Six hours laboratory and preparation. Three hours credit. First semester.

Bruner, Dawson

**2. General Entomology**—1 continued. In addition, general work in the collection and classification of insects, and the study of microscopical forms. Three hours attendance. Six hours laboratory and preparation. Three hours credit. Second semester.

**3. Economic Entomology**—An introduction to the practical phases of entomology, presenting the broad principles of insect damage and control. Types of insect injury; beneficial insects; parasitism; gall formation; fungous and bacterial diseases of insects; climatic influence on insect control; cultural preventives and artificial remedies in fighting insect pests. Assigned readings and laboratory work in rearing insects and following out life-histories in the insectary, designed principally to give the student a general view of insect metamorphosis and of insectary methods and the use of apparatus. Two hours attendance. Four hours laboratory and preparation. Two hours credit. First semester.

Bruner, Swenk

4. **Economic Entomology**—3 continued. Detailed studies of our most conspicuous insect pests concerning their life-histories and habits, and preventives and remedies for them, and in the spring observations of their work in the field. One hour attendance. Five hours laboratory, preparation and field work. Two hours credit. Second semester.

4a. **Economic Entomology**—A combination of courses 3 and 4, especially for second year students in the Agricultural Group. Three hours attendance. Nine hours laboratory, preparation and field work. Four hours credit. Second semester.

Bruner, Swenk

FOR GRADUATES AND UNDERGRADUATES

5. **Systematic Entomology**—A study of the principles and machinery of classification as applied to insects. Taxonomic groups; evaluation of characters; evolution of organs; dimorphism; nomenclature codes; synonymy; types; methods of description; construction of tables; use of reference books; faunal areas; ecological methods. Laboratory work with various insect groups designed to give a conception of the varying value of classificatory characters. Two hours attendance. Seven or more hours laboratory. Three or more hours credit. First semester.

Swenk

6. **Systematic Entomology**—5 continued. In addition, a detailed study of entomological technique involving the methods of collecting, preparing and preserving entomological specimens for the cabinet and museum; entomotaxy; use of entomological apparatus; entomography; entomological literature and methods of publication; bibliography, index and catalog compilation. Two hours attendance. Seven or more hours laboratory and field work. Three or more hours credit. Second semester.

7. **Advanced Economic Entomology**—A review of the groups of insects injurious to any host plant or group of plants, including the insect enemies of corn, the small grains, alfalfa and clover, grasses, potato, sugar beet, garden vegetables, apples, stone fruits, grape and bush fruits. Assigned and original laboratory work in life-histories and actual field work in investigating insect pests. Two hours attendance. Ten or more hours laboratory. Four or more hours credit. First semester.

Bruner, Swenk

8. **Advanced Economic Entomology**—7 continued. In addition, a consideration of the principal insect enemies of domestic animals and stored vegetable and animal products, the preparation and use of insecticides and methods of spraying and fumigation; nursery inspection; determination of injurious scale insects; entomological office methods; insect photography.

Two hours attendance. Ten or more hours laboratory. Four or more hours credit. Second semester.

**9. Apiculture**—A general survey of the subject, including a discussion of the structure, life-history, varieties and communal life of the honey bee; methods of handling bees, formation of colonies, enlarging brood nests, controlling the colony growth, rearing of queens, honey and wax production, honey-producing plants, apiary paraphernalia and the symptoms, etiology and control of bee diseases and other enemies of bees. One hour attendance. Two hours laboratory and reading. One hour credit. First semester.

Bruner

**10. Domestic Entomology**—A series of lectures on insects affecting the household, with suggestions for their control. House ants, cockroaches, termites, silver fish, clothes moths, carpet beetles, skippers, flour beetles and meal worms, lice, fleas, house flies, mosquitoes, etc. One hour attendance. Two hours laboratory and reading. One hour credit. Second semester.

Swenk

**11. Forest Entomology**—Lectures and laboratory studies of the insects of the forest. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters.

Bruner

**12. History of Economic Entomology**—An outline of the history of entomology, particularly the development of economic entomology from the earliest efforts down to the work of Riley and the advent of the new school of entomologists. One hour attendance. Two or five hours assigned readings. One or two hours credit. Second semester.

Swenk

**13. Medical Entomology**—A study of insects in their relation to the transmission of certain human diseases and of their capacity as human parasites. One hour attendance. Two or more hours laboratory. One or more hours credit. First semester.

Bruner

**14. Seminary**—The seminary work of the department is carried on by the Nebraska Entomological Society, an association of students specializing in entomology and taking advanced or graduate courses, meeting one evening each month for the presentation of papers and the discussion of current progress in entomological science. Time spent in the preparation of papers and attending meetings may be applied as laboratory work.

#### SCHOOL OF AGRICULTURE COURSES

**A. Agricultural Entomology**—Insects in their relation to Agriculture. For men. Two hours lecture. Two hours laboratory. First semester.

Swenk

**B. Agricultural Entomology**—Course A continued, taking up the principal insect pests of our crops. Two hours lecture. Two hours laboratory. Second semester.

**C. Home Economics Entomology**—Insects in their relation to the household. For women. Two hours lecture. Two hours laboratory. First semester. Swenk

**D. Home Economics Entomology**—Course C continued. Second semester.

**E. Farm Entomology**—An abridgment of courses A and B for students in the winter course. Sixteen lectures. Swenk

## FARM MANAGEMENT

Head Professor Pugsley, Assistant Professor Filley

FOR UNDERGRADUATES AND GRADUATES

**3. Farm Management**—Dealing with farm problems, such as farm location, capital, operating expenses, equipment, cost of production, systems of land tenure, size of farms, crop rotations, labor and marketing. Should be preceded or accompanied by Agronomy 1, 2a, 7 and 9. Three hours attendance. Six hours preparation. Three hours credit. First semester. Filley

**4. Farm Management Seminar**—Prerequisite: Course 3. This course deals with problems in farm management and is a continuation of course 3. Special lines of investigation relating to farm management are taken up by the students. Three to fifteen hours meeting, preparation and library. One to five hours credit. Second semester. Pugsley, Filley

**5. Advanced Farm Management**—Prerequisite: Courses 3 and 4. A part of the work must be done in the field and may be done during vacation. It is designed to train the students for field work, and to give them a first hand knowledge of Nebraska farm conditions. It will involve a detailed study of the application of economic and scientific principles to the business management of the individual farm, taking an inventory and farm census, mapping out fields, comparison of various farms as to methods of management, or the student may work out a specific problem. Primarily for graduate students. Admission by consent of the instructor. Three to fifteen hours meeting, field work, tabulating of data and library. One to five hours credit. First semester. Pugsley, Filley

**6. Advanced Farm Management**—5 continued. Second semester.

**17. Farm Documents**—A course dealing with legal papers with which the farmer should have a working knowledge, such as deeds, mortgages, leases, negotiable instruments, etc. Some time will be devoted to those phases of rural law bearing most directly upon farm management problems. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Filley

**18. Farm Accounting**—Continuation of 17. A course dealing with the importance of keeping farm accounts, in which a simple and practical system will be discussed. The subject matter and the arrangement of the farmers' library will receive some attention. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Filley

#### SCHOOL OF AGRICULTURE COURSES

**A. Farm Management**—Course of lectures on general organization and management of a farm, choosing crops, establishing rotations, distribution of labor, keeping farm records and accounts. Three hours attendance. First semester.

Pugsley, Filley

**B. Farm Management**—Course A continued. Second semester.

#### FORESTRY

Associate Professor Sponsler in charge of the department, Adjunct Professor Duppert

Course 1 is open to all students. Before electing other courses students should confer with the head of the department. Courses 7, 8, 11, 12, 15, 16, may be taken by students in other departments; in addition to these courses 23, 24 may be taken as minors by graduates who are candidates for advanced degrees in other departments. Advanced students desiring to elect Forestry Problems (Forestry 23 and 24), or to pursue investigations along other forestry lines, may arrange the number of credit hours by consulting with the head of the department; no more than four credit hours will be allowed for this work in any one subject in one semester.

Course 17a is given by Mr. F. B. Moody, Assistant State Forester of Wisconsin, Courses 12a and 12b are given by a member of the Forest Service, U. S. Department of Agriculture. Through the courtesy of the United States Forest Service, the University is able to announce several special lectures on various forestry problems. Special work is given in emergency surgery and in camp equipment, packing horses, etc. A special course is given in rhetoric which is designed to give the forestry student preparation for the writing of scientific articles on forestry. This course is given in the Rhetoric Department, but both departments emphasize

the proper use of text-book and lecture references, gathering of material, analysis, outlines, and structure. The articles are corrected for English in the Rhetoric Department and for scientific accuracy in the Forestry Department.

A degree of Master of Forestry is given upon satisfactory completion of the courses scheduled for the fifth year. (See bulletin of Graduate College.) This presupposes a major in Forestry and a minor in Botany. If a minor in Entomology, in Engineering or in other departments is desired, the student should confer with the heads of both departments. In addition, one year's practical field experience in forestry will be required before granting the Master's degree. This may be accomplished by vacation work or by a year's continuous work. Such experience is essential to proper training of the student and should be as diversified as possible.

1. **General Forestry**—Treatment of the subject in a popular way to give the general student a knowledge of forests and forestry in the United States and in foreign countries; relation of forestry to agriculture and to other industries. Two hours attendance. Four hours preparation. Two hours credit. First semester. Duppert

2. **General Forestry**—Forestry of the United States in greater detail for students specializing in the subject. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Duppert

7. **Forest Utilization**—Uses of timber; methods of logging and milling; cost of lumbering in various forest regions; seasoning, grading, markets, final product; secondary forest products; minor forest products. Two hours attendance. Four hours preparation. Two hours credit. First semester. Duppert

8. **Forest Utilization**—7 continued. Second semester.

11. **Silviculture**—Objects of silviculture; forest soils and their relation to tree growth; forest influences on soil, climate, and stream flow; forest types; pure and mixed forests. Three hours attendance. Five hours laboratory. One hour library work. Three hours credit. First semester. Duppert

12. **Silviculture**—11 continued. Methods of reproducing forests; forest nurseries, planting, thinning, harvesting; forest injuries and methods of prevention. Includes 12a and 12b. Three hours attendance. Five hours laboratory and field work. One hour library work. Three hours credit. Second semester. Duppert

12a. **National Forest Planting**—Methods of seed collecting, seed storing, nursery practice, and field planting. Six to eight lectures. Second semester.

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12b. **Commercial Nursery Practice**—Methods employed in various parts of the United States and relation to private planting. Six to eight lectures. Second semester.

15. **Forest Mensuration**—Forest surveys and mapping. Methods of determining volume, age and increment of single trees and of stands. Three hours attendance. Five hours laboratory and field work. One hour library work. Three hours credit. First semester. Sponsler

16. **Forest Mensuration**—15 continued. Second semester.

17. **Forest Policy**—Forestry methods in foreign countries and in the United States. State and national activity as to public and private holdings; taxation, benefits, fire laws, working forces, achievements. Includes 17a. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Sponsler

17a. **State Forestry**—Special state problems; management of state reserves; marking timber, trespass, timber sales. Ten to fifteen lectures. Second semester. Moody

19. **Forest Management and Valuation**—Preparation of working plans for private, state and national holdings; valuation of forest soils and forest growth; administration, regulation of forests, and forest finance. Three hours attendance. Six hours preparation. Three hours credit. First semester. Sponsler

20. **Forest Management and Valuation**—19 continued. Second semester.

21. **Thesis**—Subject for thesis is to be selected upon recommendation of the head of the department. Consultation hours to be arranged. Six hours preparation. Two hours credit. First semester. Sponsler, Duppert

22. **Thesis**—21 continued. Second semester.

23. **Forestry Problems**—A definite problem will be assigned to each student. A written report is required upon completion of the work. Consultation hours to be arranged. Six to twelve hours laboratory. Two to four hours credit. First semester. Sponsler, Duppert

24. **Forestry Problems**—23 continued. Second semester.

29. **Seminar**—Special phases of forestry with detailed reports by students. Current literature in forestry, forest botany, lumbering. Two hours attendance. Two hours library work. No credit. First semester. Sponsler, Duppert

30. **Seminar**—29 Continued. Second semester.

Botany 35. **Dendrology**—Brief review of the morphology and physiology of the tree; identification of the common forest trees, their economic and aesthetic importance; light, moisture and soil requirements; distribution throughout the United States. Two hours attendance. Four hours laboratory and field work. Two hours credit. First semester.

Sponsler.

Botany 36. **Dendrology**—Detailed study of the important forest trees of the United States; identification, distribution, importance, silvical requirements, classification. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester. Sponsler

Botany 37. **The Study of Woods**—A study of the structure of the important woods leading to their identification and to the relation of structure to strength, weight, shrinkage, and other physical properties. Primarily for foresters. Engineers may elect this course for two hours credit after consultation with the instructor. Two hours attendance. Six hours laboratory. One hour reading. Three hours credit. First semester.

Sponsler

Civil Engineering 30. **Forest Survey**—Designed for students of forestry. Prerequisite: Civil Eng. 5, 5a. Field and map work. Three hours credit. Second semester. Bridgman

Applied Mechanics 20. **Timber Physics**—Physical properties of timber. Primarily for forestry students. Prerequisite: Study of Woods (Botany 37). One hour attendance. Six hours laboratory. Three hours credit. Second semester. Chatburn

Zoology 14. **Forest Zoology**—Life history and habits of animals, exclusive of insects, which affect the forest. Methods of control. Prerequisite: Zoology 1. Two hours attendance. Four hours laboratory and field work. Two hours credit. Wolcott

Botany 25. **Forest Mycology**—Detailed study of the fungi which attack forest trees. Two hours attendance. Six hours laboratory and field work. Two hours credit. First semester. Pool

Entomology 11. **Forest Entomology**—Insects of the forest. This course is intended for forestry students. Two hours lectures. Four hours laboratory. Second semester. Bruner

[American History 10. **Public Lands Policy and Laws of the United States**—Development of the successive "Wests" of American History; governmental policy and laws as to the disposition of lands to settlers in each "West"; rise of distinction between agricultural, mineral, grazing

and forest lands; state public lands and land policies; the conservation movement. Text, reference and research work. Two hours attendance. Two hours credit. Second semester. Given only in alternate years. *Not given in 1912-1913.*

Persinger]

#### SCHOOL OF AGRICULTURE COURSES

**A. Farm Forestry**—Relation of forestry to agriculture. Wind-breaks, shelter-belts, and forest plantations. Methods of propagation, planting and protection. Two hours attendance. Four hours library and field work. First semester.

Sponsler, Duppert

**B. Farm Forestry**—An adaptation of course A for students in the short course of the School of Agriculture. Sixteen lectures.

Sponsler, Duppert

## GEOGRAPHY AND ECONOMIC GEOLOGY

### SOIL SURVEY

Head Professor Condra, Associate Professor Loveland, Assistant Professor Bengtson

The agricultural subjects of this department are: Courses 1, 2, 4, 5, 6, and 28. Course 1 considers the origin and description of land forms. Course 2 treats the structure, climate, topography, resources and industrial development of North America. It emphasizes the control of the various soil regions. Course 4, the geography and meterology of the atmosphere, is especially designed to meet the need of agricultural students. Course 5 is planned for students who wish a detailed description of the mineral fuels, forest and water resources and their industries. Course 6 is agricultural technology, giving the regions, processes, and products of the leading agricultural industries. Course 28 gives only those geological facts which are of importance to students of this college.

**Nebraska Soil Survey**—This survey is directed by the Department of Geography and Economic Geology. Students wishing to prepare for work on soil surveys should take courses 1, 21, 22, and 28. Special survey methods are given in courses 17 and 18. Laboratory courses in soils, necessary for survey work, are offered in the department of Agronomy.

**1. The Land**—An introductory lecture and laboratory course in practical physiography. Some of the topics treated are: The common minerals and rocks of the land; structures; relief features; classification and interpretation of maps; origin and detailed description of the land forms produced by wind, ground water, rivers, glaciers, earthquakes, and vol-

canoes. The lectures are fully illustrated by lantern slides, maps, models, and specimens. Two hours attendance. Two hours laboratory and two hours library and preparation. Two hours credit. Open to all. First semester.

Condra, Bengtson

**2. North America**—The leading geographic conditions such as structure, topography, harbors and coast line, climate, and the natural resources are treated with considerable detail in their relation to the industrial, political, and social development of the topographic regions and countries. Most time is given to United States and Mexico. Considerable attention is given to the geography of Nebraska and to the physiographic development of the natural gateways or routes which lead into and across the continent. Lectures fully illustrated. Laboratory studies based on topographic and physical maps, climatic charts, atlases, and models. Attendance two hours. Laboratory, library and preparation four hours. Two hours credit. Second semester.

Condra, Bengtson

**4. The Atmosphere**—A study of meteorology and geography of the atmosphere designed to meet the practical needs of students. Some of the topics considered are: The physical and chemical nature of the atmosphere; distribution of heat and atmospheric pressure; wind systems; humidity and rainfall; storms; hot winds; changes and fluctuations of climate; climatology in its relation to deserts, prairie land, forests, agriculture, and distribution of people. Students are taught the construction of weather maps and climatic charts; forecasting; and the use and care of meteorological instruments. Experiments of various kinds are performed in the wet laboratory. Two hours attendance. Four hours laboratory and preparation. Two hours credit. Second semester.

Loveland

**5. Industrial Geography**—This course is a close study of the mineral fuels, forest, and water resources of the United States. Detailed studies are made of the regions, processes and products of the following industries: Coal, coke, petroleum, iron and steel, lumber, turpentine, pulpwood, rubber, coffee and tea. Lectures, are fully illustrated by slides, charts and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. Open to all. First semester.

Condra, Bengtson

**6. Agricultural Industries**—Practical studies are made of the following industries: Cotton, tobacco, corn, wheat, rice, beet and cane sugars, citrus fruits, apples, cattle and sheep. The processes involved in converting raw material into the finished articles of commerce are emphasized. The forms, processes, and commercial relations are illustrated by means of specimens and well selected sets of lantern slides. This is a course in practical

agricultural technology. Two hours attendance. Four hours library, museum and preparation. Two hours credit. Second semester.

Condra, Bengtson

**21. Field Geology**—Open to all men students. Excursions are made to quarries, clay pits, gravel pits, sand dredges and rock outcrops along Salt Creek, Blue River, and the Platte. Use of the aneroid barometer, level, camera, and drawing materials as employed on geological and soil surveys. Interpretation of topographies and origin of different soil types emphasized. Field trips on Saturdays. One or two hours credit. First and second semesters.

Bengtson

**22. Field Geology**—21 continued. First and second semesters.

Condra

**28. Agricultural Geology**—Leading geologic structures; soil forming, road and cement-making minerals and rocks; rock weathering; land erosion; ground water; rural water supplies; evolution of farm animals as shown by museum fossils; structure and soil regions of Nebraska; the agricultural importance of the "Red Bed," "Pierre, Bad Land, Loup Fork, glacial, loess, alluvial and dunesand formations." Two hours attendance. Four hours laboratory, field and preparation. Two hours credit. Second semester.

Condra, Bengtson

## HORTICULTURE

Professor Emerson, Assistant Professor Westgate, Assistant Professor Howard

### GENERAL INFORMATION

The laboratories in Horticultural Hall are provided with charts, models, and specimens illustrating various phases of horticulture. They accommodate thirty students at a time. Greenhouse room is available for the plants used in experimental work. A small nursery in the horticultural grounds furnishes much of the material used in the laboratory and at the same time illustrates practical methods of propagating various plants. The orchards, vineyards and small fruit gardens of the Experiment Station afford practice work in pruning and training fruits and present the opportunity for comparison of various cultural methods. The farm campus and newly established arboretum furnish very good material for the study of landscape gardening. A limited number of advanced students who desire to fit themselves as teachers or investigators will be employed at a moderate compensation to assist in the laboratory of the

School of Agriculture during the winter or to help in the experimental work of the Experiment Station during the summer. The investigations now being conducted by the department on the subject of heredity afford especially favorable opportunities to graduate students.

Botany 1 and 2 should precede all college courses in horticulture and must precede courses 7 and 8. All college courses are open to women as well as to men, but course 6 is especially recommended to women. Courses 5, 9 and 10 are open only to students specializing in horticulture. Students taking course 9 or 10 will ordinarily find it necessary to be at the Experiment Station during the summer.

PRIMARILY FOR UNDERGRADUATES

2. **Orcharding**—A detailed consideration of orchard management. The tree fruits grown in Nebraska are studied according to the following scheme: Selection and propagating of varieties, choice of site, preparation of the land, planting, cultivation, cover crops, fertilizers, wind-breaks, pruning, spraying, protection from frost, harvesting, packing, storing, marketing; renovating old orchards. Three hours attendance. Two hours laboratory. Two hours library. Two hours preparation. Three hours credit. First semester. Howard

3. **Apple Judging**—A study of fall and winter varieties of apples adapted to Nebraska. Practice in judging with and without score cards, identifying and describing varieties, preparing exhibits, packing and storing, etc. One hour attendance. Four hours laboratory. One hour library. Two hours credit. First semester. Howard

4. **Fruit and Vegetable Gardening**—Small fruits adapted to Nebraska are considered according to the scheme outlined for tree fruits in course 2. A part of the time will be devoted to a consideration of the more important garden vegetables. Three hours attendance. Two hours laboratory. Two hours library. Two hours preparation. Three hours credit. Second semester. Howard

5. **Floriculture**—The production of flowers both indoors and outdoors for home use and for market. Particular attention will be given to the construction and management of greenhouses. Two hours attendance. Four hours laboratory. Two hours library. One hour preparation. Three hours credit. Second semester. Westgate

6. **Ornamental Gardening**—A consideration of the principles of landscape gardening with practice in landscape designing. A study of ornamental trees, shrubs and other plants adapted to planting in Nebraska;

their classification, culture, and decorative value. Two hours attendance. Two or four hours laboratory. One hour or two hours library. One hour preparation. Two or three hours credit. Second semester. Westgate

FOR UNDERGRADUATES OR GRADUATES

**7. Principles of Plant Breeding**—An elementary study of the principles underlying plant improvement, including simple discussions of the following: How plant characters arise and disappear, sports or mutations, bud variation. How characters are inherited, alternate versus blended inheritance. Mendelian and non-Mendelian inheritance. Appearance and inheritance of latent characters. Reversion. Correlation of characters in inheritance. Degree of development of characters, or fluctuation due to environment. Adaptation. Statistical study of fluctuations. Inheritance of fluctuations. Effect of selection in modifying the type of self- and open-pollinated plants. Pure lines. Mass selection versus isolation of biotypes. Pedigree breeding. Hybridization as a means of combining desirable parent characters. Inbreeding. Students will study and classify variations in wild and cultivated plants, prepare a herbarium of variations, practice hybridizing plants, and study hybrid material in the greenhouse and laboratory. Two hours attendance. Two hours laboratory. One hour library. One hour preparation. Two hours credit. First semester  
Emerson

**8. Genetics**—Current theories of variation and heredity; their bearing upon plant breeding. A critical study of the published results of recent investigations. Assigned readings and consultation. Six or nine hours library. Two or three hours credit. Second semester. Emerson

**9. Horticultural Problems**—The study of assigned problems in plant breeding or in the production of horticultural crops. In the main only problems closely related to the investigation being conducted in the Experiment Station will be assigned. Laboratory or field work with assigned readings, consultation, and the preparation of a satisfactory thesis. Five to twelve hours laboratory. One to three hours library. Two to five hours credit. First and second semesters. Emerson

**10. Horticultural Problems**—Continuation of 9. First and second semesters.

**12. Landscape Design**—Lectures on special landscape gardening problems. Advanced work in designing home grounds, parks, etc. Detailed studies of plants and plantings, including excursions to places of special

interest. One hour lecture. Three to four hours library. Five to ten hours laboratory. Three to five hours credit. Second semester.

Westgate

SCHOOL OF AGRICULTURE COURSES.

Courses A and B are for first-year men, courses C and D for second-year women, courses E and F (elective) for regular fourth-year men and irregular third-year men.

A. **Amateur Horticulture**—The management of the home orchard, including the propagation, culture, harvesting, and storing of such fruits as the apple, pear, cherry, plum, peach, raspberry, blackberry and strawberry. Two hours laboratory. Two hours attendance. First semester.

Westgate

B. **Amateur Horticulture**—A continued.—The ornamentation of the farm home, including the selection and care of our best ornamental plants, also the home vegetable garden. Each vegetable studied with reference to soil cultivation, varieties, harvesting, and uses. Two hours attendance. Two hours laboratory. Second semester

Westgate

C. **Home Horticulture**—The home orchard and vegetable garden. Principles of ornamental gardening as applied to the home. For women. Two hours attendance. Two hours laboratory. First semester.

Westgate

D. **Home Horticulture**—C continued. Second semester.

Westgate

E. **Commercial Horticulture**—Commercial value of the various fruits, fruits, also the methods of meeting the market conditions, profits in fruit growing, etc. Two hours attendance. Two hours laboratory. First semester.

Westgate

F. **Commercial Horticulture**—E continued.—Market gardening and the principles of landscape design. Two hours attendance. Two hours laboratory. Second semester.

Westgate

## HOME ECONOMICS

Professor Bouton, \*Associate Professor Folger, Adjunct Professor Davis, Miss Nesbitt, Miss Hedges, Miss Brown, Miss Richards

### GENERAL INFORMATION

The purpose of the department of Home Economics is to give instruction in branches which have to do with the welfare of the home. Training is provided in domestic science and art, and in household administration. Under these general divisions are studied: food, textiles and clothing; the house, its furnishing and the management of the work done therein. All

\*Resigned.

these branches are considered in their relation to the family and the individual, with special emphasis on those phases which have to do with the health and comfort of the individual. Special attention is given to artistic, economic and sociological questions which form a legitimate part of the work.

Instruction is given by the lecture laboratory method.

For a major in Home Economics in the Teachers College the following courses are required: 1, 2, 3, 4, 5, 6, 9, 10, 13 and 14; for a minor, courses 1, 2, 3, 4, 5 and 6. The use of these courses as a major is conditional on the completion of Chemistry 1, 2, 3 and 14.

THE UNIVERSITY TEACHERS' CERTIFICATE IN HOME ECONOMICS

See statement under "Requirements for Graduation," page 16.

PRIMARILY FOR UNDERGRADUATES

1. **Sewing and Design**—Fundamental principles of hand and machine sewing applied to making of household articles, undergarments and shirt waist suit. Drafting and use of patterns. Repairing; by patching and darning. Textiles, their manufacture, quality and value. Principles of design applied to Household Art. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester.

Davis, Brown

2. **Sewing and Design**—1 continued. Second semester.

3. **Foods: Selection and Preparation**—Composition and function of typical foods; fundamental principles and processes of cooking and their application in the preparation of individual dishes; nutritive and money values. Should be preceded by Chemistry 1 and 2. Two hours attendance. Six hours laboratory. One hour outside preparation. Three hours credit. First semester.

Folger, Nesbitt, Hedges

4. **Foods: Selection and Preparation**—3 continued. Second semester.

11. **General Cookery**—For juniors and seniors who desire some work in cookery, but have not the time for courses 3, 4, 5 and 6. General principles and methods of cooking; lessons in serving. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Folger, Nesbitt

12. **General Cookery**—11 continued. Second semester.

17. **Elementary Cookery**—For students who have no preparation in chemistry. One hour attendance. Three hours laboratory. One hour credit. First semester.

Folger, Hedges

18. **Elementary Cookery**—17 continued. Second semester.

## FOR UNDERGRADUATES AND GRADUATES

**5. Advanced Cookery**—Application of scientific principles to more elaborate dishes and to menus. Preservation of foods; serving of meals. Two hours attendance. Six hours laboratory. Two hours credit. First semester.

Folger, Nesbitt

**6. Advanced Cookery**—5 continued. Second semester.

**5a. Dietetics**—To be taken with course 5. Consideration of problems of digestion and metabolism. Study of dietaries of given cost and their adaptation to varying conditions of health, age, environment, etc. Diet of children; family dietaries; diet of invalids. One hour attendance with assigned readings. One hour credit. First semester.

Folger

**6a. Dietetics**—5a continued. Institutional and special dietaries. Second semester.

**7. Industrial Art**—Crinoline modelling and advanced work in drafting, cutting, fitting and finishing gowns. Millinery, construction of frames, covering and trimming. Embroidery, the principal stitches used in decorative art and their application. Textiles, microscopical and chemical tests. Design, color work. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester.

Davis

**8. Industrial Art**—7 continued. Second semester.

**9. Household Administration**—House plans and furnishings; ventilation, heating, lighting, water supply, disposal of waste; management of household affairs, division of income, domestic service, and home nursing; house practice, including all processes of practical housekeeping. Two hours attendance. Two hours laboratory. Two or five hours outside preparation. Two or three hours credit. First semester.

Bouton

**10. Household Administration**—9 continued. Second semester.

**13. Teachers' Course**—Theory and method of teaching domestic science. Required of candidates for the University Teachers' Certificate in Home Economics. Lectures with practice teaching. Two hours attendance. Four hours outside preparation, including practice teaching. Two hours credit. First semester.

Folger

**14. Teachers' Course**—13 continued. Second semester.

**15. Teachers' Course**—Theory and Method of Teaching Domestic Art. Lectures with practice teaching. One hour attendance. Two hours laboratory. Three hours outside preparation. Two hours credit. First semester.

Davis

19. **Wood Work and Interior Finish**—(See Agricultural Engineering 5.)

20. **Wood Work and Interior Finish**—19 continued. Second semester.

SCHOOL OF AGRICULTURE COURSES

A. **Sewing and Design**—Fundamental principles of hand and machine sewing applied to making of household articles and undergarments. Repairing by patching and darning. Textiles, their manufacture, quality and value. Principles of design applied to household art. Three hours attendance. Six hours laboratory. First semester. Davis, Brown

B. **Sewing and Design**—A continued. Second semester.

C. **Cooking**—Composition and preparation of food, with a study of its relation to healthful living. Care of the home, including the cleaning of wood, metal, glass, porcelain and enamel. Three hours attendance. Six hours laboratory. First semester. Richards

D. **Cooking**—C continued. Second semester.

E. **Cooking**—Preservation of food. Preparation and serving of meals. Food for the sick. House planning. Furnishing and management. Three hours attendance. Six hours laboratory. First semester. Richards

F. **Cooking**—E continued. Second semester.

G. **Household Art**—Drafting and use of patterns. Cutting, fitting and finishing of dresses. Simple embroidery. Millinery. Textiles. Color work. Three hours attendance. Six hours laboratory. First and second semesters. Davis

H. **Household Art**—G continued. Second semester.

MILITARY SCIENCE AND TACTICS

[See College of Arts and Sciences]

PHYSICAL EDUCATION

[See College of Arts and Sciences]

ZOOLOGY

[See College of Arts and Sciences]

# The Agricultural Experiment Station for Nebraska

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## GOVERNING BOARD OF THE EXPERIMENT STATION

(The University Board of Regents)

### Officers

HON. CHARLES SUMNER ALLEN, President.....	Lincoln
HON. WILLIAM GUNN WHITMORE.....	Valley
HON. VICTOR GERALD LYFORD.....	Falls City
HON. CHARLES BARNEY ANDERSON.....	Lincoln
HON. GEORGE COUPLAND.....	Elgin
HON. FRANK LOUIS HALLER.....	Omaha

### OFFICERS OF THE EXPERIMENT STATION

EDGAR ALBERT BURNETT, B. Sc., Director.

JAMES STUART DALES, M. Ph., Financial Secretary\*

WILLIAM WARNER MARSHALL, Executive Clerk.

### THE WORKING STAFF

EDWIN MEAD WILCOX, Ph. D., Agricultural Botany.

FREDERICK JAMES ALWAY, Ph. D., Agricultural Chemistry.

LEON WILSON CHASE, B. Sc. in M. E., Agricultural Engineering.

CHARLES W. PUGSLEY, B. Sc., Farm Management.

† HOWARD REMUS SMITH, B. Sc., Animal Husbandry.

JAMES HARRISON GAIN, M. D. C., Animal Pathology.

LAWRENCE BRUNER, B. Sc., Entomology.

† EDWARD GERRARD MONTGOMERY, A. M., Experimental Agronomy.

THEODORE ALEXANDER KIESSELBACH, B. Sc., A. B., Associate in Experimental Agronomy, in charge.

OLENUS LEE SPONSLER, A. B., Forestry.

ERWIN HINCKLEY BARBOUR, Ph. D., Geology.

GEORGE RICHARD CHATBURN, A. M., Highway Engineering.

ROLLINS ADAMS EMERSON, B. Sc., Horticulture.

QSCAR VAN PELT STOUT, C. E., Irrigation Engineering.

GEORGE ANDREW LOVELAND, B. S., LL. B., Meteorology.

WILLIAM PATTON SNYDER, M. S., Superintendent Experimental Sub-station, North Platte.

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\* By an act of the Legislature of the state of Nebraska, approved and in effect February 5, 1899, the state treasurer became *ex officio* custodian of the experiment station fund on and after July 1, 1899.

† Resigned.

- MYRON HARMON SWENK, A. M., Associate in Entomology.
- WILLIAM WESLEY BURR, B. Sc., Associate in Soils and Crops, North  
Platte; Assistant Agriculturalist, Office Dry Land Agriculture, U. S.  
Department of Agriculture.
- ROBERT SAMUEL TRUMBULL, A. M., Assistant in Agricultural Chemistry.
- PERCY BONSFIELD BARKER, A. B., Associate in Agronomy.
- LAZELLE BRANTLEY STURDEVANT, A. M., M. D., Assistant in Animal Pathology.
- ROBERT FRANCIS HOWARD, B. S. in Agr., Assistant in Horticulture.
- JAMES COWAN, M. M. E., Superintendent Experimental Substation,  
Valentine.
- SENATOR WILLIS PERIN, Farm Superintendent.
- ERWIN HOPT, B. Sc., Assistant in Agronomy.
- ELLIS RAIL, B. Sc., Assistant in Animal Husbandry.
- CHARLES BOSS LEE, B. Sc., Assistant in Animal Husbandry.
- GEORGE KONRAD KARL LINK, B. Sc., Assistant in Agricultural  
Botany.

## THE CENTRAL EXPERIMENT STATION

The Nebraska Agricultural Experiment Station, carried as a department of the College of Agriculture of the University of Nebraska, is maintained from funds appropriated by Congress, supplemented by state appropriations. Under the provisions of the Hatch Bill, each state and territory that had established an agricultural college under the land grant act of 1862 was offered funds to establish, in connection therewith, an agricultural experiment station. Nebraska assented to the conditions and was one of the states to receive immediate benefits from the act.

The work contemplated by the law providing for these experiment stations is set forth as follows in section 2 of the act establishing the station:

SECTION 2. That it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under the varying series of crops; the capacity of new trees or plants for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states and territories.

On March 16, 1906, an act known as the Adams act became effective, granting increased support to the Experiment Station for purely technical investigations along the lines mentioned in the Hatch act under which the Experiment Station was established, and since the acceptance of this fund the Experiment Station has been conducting these technical lines of investigation in accordance with the act.

The central experiment station is located at the University Farm, except the Finance Office, which is located at the University campus. The farm comprises a tract of 320 acres located three miles east of the University, having street car connections. About one hundred acres is now laid off in experiment plats for field crops, fruits, and vegetables. The animals used for experiment are in a measure furnished from the herds of cattle, sheep

and hogs used for instructional purposes. The offices of the Director and of the departments of Animal Husbandry and Agricultural Botany, the laboratories for investigation in Agricultural Botany, the department of Farm Management, and the Agricultural Library, are in Agricultural Hall. The offices of the departments of Experimental Agronomy and of Instructional Agronomy, also of Agricultural Chemistry and Entomology, and the laboratories for investigation in these lines are in Experiment Station Hall. The Departments of Horticulture, Dairy Husbandry and Animal Pathology have separate buildings.

### THE EXPERIMENTAL SUBSTATIONS

**North Platte Substation.** The Experimental Substation provided for by the Legislature of 1903 is located in Lincoln County, three miles south of North Platte, on a tract of 1,920 acres. This farm contains 270 acres of bench land with an elevation of about 2,800 feet. About 140 acres of this farm is level table-land with an elevation of 3,000 feet, the balance of the farm being rough canyon and table-land devoted to pasture. The experiments in crop and animal production upon this farm are comparable with nearly all the crop production and animal industry of Central Nebraska. Experiments in crop production are conducted entirely without irrigation. Bulletins are published from time to time through the central experiment station.

**Valentine Substation (the Sand Hills Station).**—The Legislature of 1909 provided for an additional substation west of the second guide meridian and north of the sixth standard parallel. This station was located by the Regents, after due consideration, at Valentine, Nebraska, upon a portion of the Military Reservation adjoining the town to the southeast, a permanent lease being secured from the War Department to section 32, the west half of section 33, and that part of the southeast quarter of section 33 lying northwest of the Niobrara river,—all in township 24 north, range 27 west, in Cherry County, Nebraska. Upon request to the citizens of Valentine, a deed was given to the Regents for the University to 40 acres of land lying immediately west of section 32, being the northeast quarter of the southeast quarter of section 31, township 24 north, range 27 west, in Cherry County, Nebraska. A Superintendent's house, a barn, and other buildings have been erected upon the deeded land, the entire tract has been fenced, and preparations have been made and active experimental work began in the spring of 1911.

**The Scottsbluff Substation.** The Legislature of 1909 also provided for an appropriation to be used in co-operation with the United States De-

partment of Agriculture to study irrigation methods and crop production in the North Platte Valley. 160 acres of land located on the southeast quarter of section 21, township 23 north, range 57 west, was selected for this purpose and was withdrawn from entry by the Reclamation Service and assigned to the use of the United States Department of Agriculture and the Nebraska Experiment Station for the purposes above named. Experimental work in crop rotations, the application of water to the land, and other questions relative to the development of agriculture in the North Platte Valley are in progress. Work in dry land agriculture is also being studied on land which does not receive irrigation water.

### EXPERIMENT STATION BULLETINS

Each year the Station publishes at least four bulletins. These contain the results of investigations in subjects pertaining to agriculture. Many of these bulletins cover lines of technical investigation upon scientific subjects relating to agriculture. The reports of investigation at all substations are published through the central station. The edition of each bulletin varies from 5,000 or 10,000 in technical bulletins and from 10,000 to 30,000 or more in regular bulletins. An Annual Report of 5,000 copies is published, containing a summary of the work of the year, and experimental results of interest to investigators. The publications of the Station since those reported in the last calendar are as follows:

Bulletin No. 119. Spraying as an Essential Part of Profitable Apple Orcharding. By R. A. Emerson, R. F. Howard, and V. V. Westgate. Distributed March 15, 1911. 25,000 copies.

Bulletin No. 120 (Extension Bulletin No. 1). Alfalfa Management. By C. W. Pugsley. Distributed May 12, 1911. 40,000 copies.

Bulletin No. 121. (Substation Bulletin No. 8). Growing Hogs in Nebraska. By W. P. Snyder. Distributed June 30, 1911. 32,000 copies.

Bulletin No. 122 (Extension Bulletin No. 2). Cost of Growing Crops in Nebraska. By C. W. Pugsley. Distributed June 30, 1911. 32,000 copies.

Press Bulletin No. 34. How to Combat the Melon Aphis. By M. H. Swenk. Distributed June 26, 1911. 22,000 copies.

Press Bulletin No. 35. Catch Crops for Hay and Pasture. By E. G. Montgomery. Distributed July, 1911. 2,500 copies.

Press Bulletin No. 36. The Distribution and Use of Hog Cholera Serum. By J. H. Gain. Distributed September 26, 1911. 35,000 copies.

The Experiment Station desires to assist the farmers of the state in solving many of the difficult and perplexing problems that affect our agricultural production, and to this end is carrying on investigations along lines that aid the practical farmer. The cooperation of all who are interested in the improvement of agricultural practice is invited.

# The College of Law

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

WILLIAM GRANGER HASTINGS, A. B., Dean of the College of Law and Professor of Law. University Hall 310.

HENRY H. WILSON, A. M., LL. M., Professor of Law. University Hall 308.

EDWIN MAXEY, Ph. M., D. C. L., Professor of Public Law and Diplomacy. University Hall 308.

ERNEST BANCROFT CONANT, A. B., LL. B., Professor of Law. University Hall 308.

CHARLES AUGUSTUS ROBBINS, Ph. M., LL. B., Professor of Law. University Hall 310A.

JOHN JAMES LEDWITH, B. Sc., LL. B., Adjunct Professor of Law. University Hall 310A.

ADDISON ERWIN SHELDON, A. M., Director of the Legislative Reference Bureau; Instructor in Contemporary Legislation. University Hall.

GEORGE LOUIS DELACY, LL. B., Instructor of Law. University Hall 310A.

SAMUEL JOHNSON TUTTLE, A. M., LL. B., Ex-Judge of the District Court, Instructor in Real Property, Lecturer on Land Titles. Security Mutual Life Building.

ADDISON SEABURY TIBBETS, B. C. E., Ex-Judge of the District Court; Lecturer on Professional Ethics. Richards Block.

CLAUDE COPLEY FLANSBURG, Lecturer on Advocacy. Funke Building.

WALLACE RUTHERFORD LANE, LL. B., Lecturer on Patent, Copyright and Trade Mark Law. Des Moines, Ia.

## THE COLLEGE OF LAW

As a place for study, the modern law school has great superiority over the law office. Experience has shown that in the large majority of cases the preparation of those who study in law offices is very imperfect both as to the work accomplished and as to the methods employed. Among law schools, moreover, those which form part of a university community offer many advantages in the way of free lecture courses, opportunities for pursuing kindred studies, general library facilities, students' societies and clubs not to be had in an independent law school or in a university law department which is located apart from the university's other schools and college. The College of Law of the University of Nebraska is a modern law school in the center of a large and growing university community.

## COURSES AND DEGREES

**Three-Year Course.** Three years of undergraduate work in the College of Law and one preliminary year of academic study are necessary for the degree of Bachelor of Laws.

**Six-Year Combined Academic and Law Course.** Fourth-year students in the College of Arts and Sciences may elect courses in the department of Jurisprudence and Public Law which count towards the degree of Bachelor of Laws, and not to exceed twelve hours a week each semester of the first-year studies in the College of Law. These subjects count towards the degree of Bachelor of Arts or of Bachelor of Science. By this arrangement, a student is enabled to complete a combined course of study in six years and receive the two degrees. The student expecting to take this combined course of six years must declare his intention before taking his first degree and must pay the regular fees of the College of Law.

## ADMISSION TO THE COLLEGE OF LAW

No distinction among students is made on account of sex or place of residence.

**Entrance Credits.** By enactment of the Nebraska Legislature, no person may be admitted to the bar without "a preliminary education, other than legal, equivalent to that involved in the completion of the first three years of a high school course accredited by the state department of public instruction." The preliminary educational requirements for admission to the College of Law are much higher. To enter the first-year class in this college each candidate must present entrance "credits" for high

school work equal to 30 "points" or a total of 150 recitation hours\* and, in addition, one year of college work. Conditional admission is permitted on a minimum of 28 credit points or 140 recitation hours and one preliminary year of academic study. Candidates who are not graduates of a secondary school accredited to the University or of a school whose instruction can be accepted as of equivalent rank are required to take examinations for admission. A student admitted conditionally must remove the conditions at the earliest possible opportunity; the degree will not be granted until such conditions are removed. Persons at least 21 years of age, unable to meet the entrance requirements, may be admitted as special students, not candidates for the degree. Upon fulfilling the entrance requirements, such special students may register as regular students, and become candidates for the degree. Persons presenting diplomas or certificates from recognized universities and colleges in good standing or from accredited high schools, normal schools, and academies, are admitted without examination, to whatever standing their credentials entitle them. The requirements for entrance are as given below. The time element indicated with each subject is essential.

**Required Subjects (17 points).** Of the 30 points required for admission, 17 must be presented from the following subjects in the amount indicated:

Algebra (simultaneous quadratics through logarithms) 1½ years, 5 hours a week.....	3
Geometry (plane), 1 year, 5 hours a week.....	2
† History (European), 1 year, 5 hours a week.....	2
† English (composition and literature), 2 years, 5 hours a week.....	4
† Language (ancient, modern), 3 years, 5 hours a week.....	6

\*A "credit point" means the work in a high school subject of five recitations a week, of not less than 40 minutes each, during a period of at least 18 weeks. In laboratory courses, it means three recitations a week, plus two double periods of laboratory work under the supervision of an instructor.

† In preparing for entrance to the College of Law, students are urged to give their time chiefly to Latin, History, and English, since these subjects are found to be of especial value. In no case will a candidate be admitted to the College of Law whose written composition is deficient in grammar, spelling, punctuation, and paragraphing.

For entrance to the College of Arts and Sciences (six-year Law course), four of the six points required must be in Latin. Students from specially approved accredited schools may offer German or French to meet the six points.

**Optional Subjects (13 points).** In addition to the above required subjects, applicants for admission must present evidence of preparation in work equal to 13 credit points to be chosen from the following optional list:

Agriculture, $\frac{1}{2}$ year, 5 hours a week.....	1
* English, 1 year, 5 hours a week.....	2
Language (ancient, modern), 1 to 4 years, 5 hours a week.....	2 to 8
Geometry (solid), $\frac{1}{2}$ year, 5 hours a week.....	1
* History, 1 to 2 years, 5 hours a week.....	1 to 4
Natural science (botany, zoology), 1 year, 5 hours a week, each.....	1 or 2
Physical Geography, $\frac{1}{2}$ year, 5 hours a week.....	1
Physical science (chemistry, physics), 1 year, 5 hours a week, each.....	1 or 2
Trigonometry (plane), $\frac{1}{2}$ year, 5 hours a week.....	1
Other subjects taught in an approved manner in an accredited secondary school, (one point each).....	6

**Advanced Standing.** A credit hour is given for a subject carried one hour a week for a semester. Thus, "Contracts" counts six credits, "Torts" four credits, etc. Applicants possessing the required preliminary education are admitted to advanced standing as follows:

To the Second-year Class.—(1) Any person at least nineteen years of age who has attended for one year another law school having an approved course equivalent to the first-year course in this College and who upon examination obtains at least twenty-four credits. (2) Any person who has received the bachelor's degree from one of the general colleges of the University and has completed work in the College of Law equal to at least twenty-four credits.

To the Third-year Class.—Any person at least twenty years of age, who has attended for two years an approved law school, and who upon examination obtains a total of at least fifty credits. The degree of Bachelor of Laws is not conferred on persons who have not attended approved law schools three years, including at least full attendance for the last year at this College.

To Advanced Credits in General.—At the discretion of the Dean of the College of Law, credit may be given without examination for work satisfactorily completed at other approved law schools offering courses equal to those given in this school, but in no case will credit be given except upon presentation of a certificate for work in residence at an approved law school.

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\* Two additional points are granted to certain schools named by the Committee on Accredited Schools.

A student who has been allowed credit in any course, and who fails on any of the examinations which he has been required to take in other courses for which he has not been allowed credit, may be required to take any or all of the work for which credits have been allowed. Students who apply for advanced standing on examination are charged an examination fee of \$10.

**Adult Special Students.** Persons of suitable preliminary training, not candidates for a degree, may be admitted at any time, without examination, upon payment of the required fees. They must first make application to the Registrar as in the case of regular students. Persons preparing for the state bar examinations and business men not intending to practice law as a profession are admitted as such special students. The same diligence, industry, punctuality and proficiency are required of special students as of candidates for the degree. Students are not permitted to abuse this privilege of special registration by making it a means of securing merely nominal membership in the University, whether for social or athletic purposes or for any other reason.

**Registration.** Registration in the College of Law takes place on the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. Entrance examinations are held during the week of registration. To promote prompt registration, a special fee of \$3 is charged a student who, unless excused by the Chancellor, for any reason seeks to register later than the regular days set aside for this purpose. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5 and no student is permitted to change from one college to another without written permission to the Registrar from the Dean of each college concerned. Students may not attend classes for which they are not registered, and credit is not given for studies pursued without registration. Any change in a student's residence must be reported immediately to the Registrar. When a student in good and honorable standing finds it necessary to withdraw from the University before the close of the semester, the Registrar grants him, upon application, permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

**Student Adviser.** The Dean of the College is the student's adviser. He has daily consultation hours when students may call seeking advice and

encouragement in their work. Leave of absence for a brief period is granted a student by the Dean. This leave is merely a justification for the absence and is not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases.

### FEES AND EXPENSES

**Fees** must be paid upon registration, to the Secretary. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. No extra fees are charged to students from other states. No student may enroll in classes or take any private examination until his fees are paid. The schedule of fees in the College of Law is as follows:

Matriculation fee (payable only on first registration).....	\$5
Library fee, each semester.....	1
Incidental (6-year combined course), each semester.....	3
Diploma fee .....	5
Diploma fee, <i>in absentia</i> , additional.....	10

Tuition fees:

Annual tuition, payable \$25 for the first semester and \$20 for the second semester.....	45
For one semester only.....	25
Special students, for one topic, each semester.....	12

Examination fees:

For advanced standing.....	10
For all who require special examination.....	2

**Expenses.** The cost of table board to students in Lincoln ranges from \$3 to \$5 a week. The cost of lodging ranges from \$2.50 to \$10 a month, the usual cost being from \$4 to \$5 where two students occupy the same room. The usual cost of combined board and lodging is from \$18 to \$20. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the College do not, however, undertake to find employment for students. Under the direction of the Registrar's office, the Young Men's Christian Association of the University maintains an employment bureau.

**REQUIREMENTS FOR GRADUATION**

Regular students who have completed the course of instruction to the satisfaction of the faculty of the College of Law and the board of Regents of the University receive the degree of Bachelor of Laws. Students whose time and means do not permit them to complete the course receive certificates of proficiency according to the merit and extent of their work.

**ADMISSION TO THE BAR**

Under the statutes of Nebraska, admission to the bar is to be had in the Supreme Court only, and is governed by rules established by that Court. The statutes now provide as follows: "No person shall be admitted to the bar unless such person is at least twenty-one years of age and of good moral character, and unless such person either (1) has had a preliminary education, other than legal, equivalent to that involved in the completion of the first three years of a high-school course accredited by the State Department of Public Instruction, and has regularly and attentively studied law in a reputable law school or in the office of a practicing attorney, or partly in such school and partly in such office, for a period of at least three years, at least one year of which office study shall have been passed in a law office in this state, and shall pass a satisfactory examination upon the principles of the common law, equity, criminal law, statutes and practice of this state; or (2) is a regular graduate of the College of Law of the University of Nebraska, or of such other college of law of this state having entrance requirements and a course of study equal to and equivalent to those of the law school of the University of Nebraska as the Supreme Court shall, upon application and showing, designate as a College of Law whose graduates shall be entitled to admission without examination; Provided, that such other College of Law shall be a member of the Association of American Law Schools. Provision shall be made by rule of court for the registration of students in law offices in this state at the beginning of their respective terms of study in the office of the clerk of the Supreme Court or the office of the clerk of the District Court in the county in which any such law office is located." The College of Law of this University is a member of the Association of American Law Schools and graduates of the College of Law are admitted to practice in Nebraska on motion without examination other than that sustained prior to graduation.

**COURSE OF INSTRUCTION**

The course of instruction in the College of Law extends through three years of thirty-six weeks each exclusive of vacations. The design of the course is two-fold: (1) To afford the training in the fundamental principles of the common law essential to the practice of the profession in any jurisdiction where that system obtains. (2) To acquaint the student with the special subjects of immediate or local importance in Nebraska and neighboring states and to instruct him thoroughly in the peculiarities of substantive law and procedure in those jurisdictions, so as to enable him to enter upon the practice understandingly at once, without any further term of practical instruction in an office. In addition, bearing in mind the extent to which the legislative and executive departments are recruited from the bar, and the part which the profession must take in legislation of all kinds, as well as in the progress and reform of the law, it is designed to stimulate an intelligent and enduring interest in the history and science of law, in order to make not merely practitioners, but lawyers in the fullest sense. With the additional requirement of one year of college work by way of preparation it is hoped that the student may be saved from what seems the most besetting error in regard to law and society, a wholly mechanical conception of them and of possible changes in them. The following program of study is made with these ends in view:

**REQUIRED COURSES****FIRST YEAR—FIRST SEMESTER**

**Common-Law Pleading**—Ames' Cases on Pleading. Two hours attendance. Two hours credit. Conant

**Contracts**—Williston's Cases on Contracts. Three hours attendance. Three hours credit. Robbins

**Criminal Law and Procedure**—Mikell's Cases on Criminal Law; the Nebraska Criminal Code. Three hours attendance. Three hours credit. Maxey

**History and System of the Common Law**—A general survey of the legal system of English-speaking countries; courts, their organization and jurisdiction. Selected cases; Blackstone's Commentaries, Book III; Street's Foundations of Legal Liability, vol. 3. Two hours attendance. Two hours credit. Hastings

**Property I**—Gray's Cases on Property, vol. 1; Kirchwey's Readings on the Law of Real Property. Two hours attendance. Two hours credit. Conant

**Torts**—Ames & Smith's Cases on Torts, vol. 2. Two hours attendance.  
Two hours credit. Wilson

## FIRST YEAR—SECOND SEMESTER

**Agency**—Huffcutt's Cases on Agency. Two hours attendance. Two  
hours credit. Robbins

**Common Law Pleading** (Concluded)—One hour attendance. One hour  
credit. Conant

**Contracts** (Concluded)—Three hours attendance. Three hours credit.  
Robbins

**Domestic Relations**—Woodruff's Cases on Domestic Relations. One  
hour attendance. One hour credit. Conant

**Equity Jurisdiction I**—Keener's Cases on Equity Jurisdiction, vol. 1.  
Two hours attendance. Two hours credit. Hastings

**Practice in Justices' Courts**—Selected cases; Cobbey's Student's Code  
of Nebraska. One hour attendance. One hour credit. Ledwith

**Property I** (Concluded)—Gray's Cases on Property, vol. 2. Two hours  
attendance. Two hours credit. Conant

**Torts** (Concluded)—Ames & Smith's Cases on Torts, vol. 1. Two hours  
attendance. Two hours credit. Wilson

## SECOND YEAR—FIRST SEMESTER

**Code Pleading**—Hinton's Cases on Code Pleading. Three hours attend-  
ance. Three hours credit. Ledwith

**Equity Jurisdiction II**—Keener's Cases on Equity Jurisdiction, vols. 2  
and 3. Three hours attendance. Three hours credit. Hastings

**Equity Pleading**—Thompson's Cases on Equity Pleading. One hour  
attendance. One hour credit. Conant

**Evidence**—Thayer's Cases on Evidence. Two hours attendance. Two  
hours credit. Wilson

**Property II**—Gray's Cases on Property, vol. 3. Two hours attendance.  
Two hours credit. Conant

**Quasi-Contracts**—Scott's Cases on Quasi-Contracts. Two hours attend-  
ance. Two hours credit. Robbins

## SECOND YEAR—SECOND SEMESTER

**Bills and Notes**—Smith & Moore's Cases on Bills and Notes. Three  
hours attendance. Three hours credit. Robbins

**Code Practice**—Bringing an action; provisional remedies; *Nisi prius*; judgment, execution, appellate procedure. Pound's Cases on Practice; Cobbey's Student's Code of Nebraska. Wheeler's Compiled Statutes, Codes. Three hours attendance. Three hours credit. Hastings

**Damages**—Beale's Cases on Damages. One hour attendance. One hour credit. Conant

**Evidence** (Concluded)—Two hours attendance. Two hours credit.

Wilson

**Wills and Administration**—Two hours attendance. Two hours credit. Robbins

**Trusts**—Ames' Cases on Trusts. Three hours attendance. Three hours credit. Conant

#### THIRD YEAR—FIRST SEMESTER

**Constitutional Law**—Thayer's Cases on Constitutional Law, vol. 1. Two hours attendance. Two hours credit. Hastings

**Federal Procedure**—Selected cases. One hour attendance. One hour credit. Wilson

**Insurance**—Selected cases. One hour attendance. One hour credit. Robbins

**Mortgages**—Kirchwey's Cases on Mortgages. Two hours attendance. Two hours credit. Hastings

**Partnership**—Burdick's Cases on Partnership. Two hours attendance. Two hours credit. Conant

**Private Corporations**—Smith's Cases on Private Corporations. Two hours attendance. Two hours credit. Maxey

**Property III**—Gray's Cases on Property, vol. 5. Three hours attendance. Three hours credit. Tuttle

#### THIRD YEAR—SECOND SEMESTER

**Constitutional Law (Concluded)**—Thayer's Cases on Constitutional Law, vol. 2. Three hours attendance. Three hours credit. Hastings

**Municipal Corporations**—Smith's Cases on Municipal Corporations. One hour attendance. One hour credit. Conant

**Public Service Companies**—Beale and Wyman's Cases on Public Service Companies. Two hours attendance. Two hours credit. Maxey

**Private Corporations** (Concluded)—Two hours attendance. Two hours credit. Maxey

**Property III** (Concluded)—Gray's Cases on Property, vol. 6. Two hours attendance. Two hours credit. Tuttle

**Sales**—Burdick's Cases on Sales. Two hours attendance. Two hours credit. Robbins

**Suretyship and Guaranty**—Wilson's Cases on Suretyship and Guaranty. One hour attendance. One hour credit. Wilson

#### ELECTIVES

At least eight hours of work in the elective courses must be presented for the degree.

OPEN TO SECOND-YEAR AND THIRD-YEAR STUDENTS AND, UPON CONSENT  
OF THE DEAN, TO FIRST-YEAR STUDENTS

**Administrative Law I** (PUBLIC LAW 3)—Public officers; extraordinary legal remedies. Goodnow's Cases on the Law of Officers. First semester. Two hours attendance. Two hours credit. Maxey

**Administrative Law II** (PUBLIC LAW 4)—Taxation. Goodnow's Cases on Taxation. Second semester. Two hours attendance. Two hours credit. Maxey

**Analytical and Historical Jurisprudence** (JURISPRUDENCE 3)—Second semester. Three hours attendance. Three hours credit. Maxey

**International Law I** (PUBLIC LAW 6)—Maxey's International Law. First semester. Three hours attendance. Three hours credit. Maxey

**International Law II** (PUBLIC LAW 7)—Advanced Course. Second semester. Two hours attendance. Two hours credit to students who do not present International Law I. Maxey

**Admiralty Law**—Ames' cases. Two hours attendance. Two hours credit. Second semester. Maxey

**Roman Law** (JURISPRUDENCE 2)—History and Institutes. First semester. Two hours attendance. Two hours credit. (*Given in 1912-1913 and alternate years.*)

**Practical Legislation** (POLITICAL SCIENCE 33 and 34)—Drafting and criticism of legislative bills and information briefs with Legislative Reference Bureau. Practice work at State House January to April of odd-numbered years. Open to second and third-year, and, on the approval of the Dean, to first-year law students. Sheldon

## OPEN TO SECOND-YEAR AND THIRD-YEAR STUDENTS ONLY

**Bankruptcy**—Williston's Cases on Bankruptcy. First semester. Two hours attendance. Two hours credit. Robbins

**Conflict of Laws**—Beale's Cases on the Conflict of Laws. Minor's Conflict of Laws. Second semester. Two hours attendance. Two hours credit. Hastings

**Irrigation Law**—Selected cases. First semester. One hour attendance. One hour credit. (*Given in 1911-12 and alternate years.*)

**Mining Law**—Selected cases; Costigan's American Mining Law. First One hour credit. (*Given in 1911-12 and alternate years.*) Conant

(This course will be given in 1912-1913 and alternate years. For the benefit of the students in this course, Professor Condra, of the department of Geography and Economic Geology, will give two illustrated lectures on the origin of ores and ore deposits, mining, prospecting and mining operations. Arrangements for other special lectures not completed.)

## OPEN TO THIRD-YEAR STUDENTS ONLY

**Conveyancing**—Practical exercises in conveyancing, examining abstracts of title, and drafting papers, under the personal supervision of the instructor. Pound's Exercises in Conveyancing. Second semester. Two hours attendance. Two hours credit. Ledwith

## EXTRA COURSES (NO CREDIT)

**Bar Examination Review**—A general review of the more important topics of the law, based upon questions used at bar examinations. Open to third-year students only. Second semester. Hours to be arranged.

Robbins, Hastings, Maxey, Conant

**Business Law**—A course in business law with special reference to the needs of engineers. Credited in the engineering departments, but not in the College of Law. Open to all College of Law students. Second semester. Two hours attendance. Conant

## PRACTICE AND PRACTICE COURTS

In addition to the courses in practice, in which instruction is given in the principles and general rules of procedure in state and federal courts, practice courts are maintained in order to afford the student an opportunity of acquainting himself with the various steps in an orderly litigation, and of learning by actual experience to determine what proceedings to

bring, how to bring them, and how to conduct causes to a final determination. The work in these courts is required. Every effort is made to reproduce the conditions of actual practice. First year students serve as parties, witnesses and jurors. Second year students serve as justices of the peace, constables, sheriffs, clerks of the courts of record and practicing attorneys. Third year students serve as county attorneys and in some cases as judges of the various courts of record and practicing attorneys. Three members of the faculty serve as judges at the sessions of the county and district moot courts which are held each Friday afternoon.

The parties and witnesses are advised of the facts of the controversy by the instructor and the student who acts as counsel discovers the matter at issue and the testimony he may adduce in support of his contentions by consultation with the party for whom he appears and his witnesses. He then determines the form of action or proceeding, sues out and returns process, prepares pleadings and takes all steps required to bring the cause to trial. The trial is attended by an instructor, who gives personal instruction in trial procedure, preparation of instructions, verdicts, and journal entries, making motions for new trial or in arrest of judgment, settlement of bills of exceptions, supersedeas, and procedure on appeal.

Each student is required during the second year to try at least one case in an inferior court, and to take it by appeal to the district court. In the third year each student is required to take part in at least two causes, one at law and one in equity, in the district court, and on appeal in the supreme court. A county court is also provided to furnish practice in the probating of wills and the administration of estates.

Further practical exercises in drawing the proper papers or instruments to meet the facts of hypothetical cases are provided in the courses in pleading, in practice, and in conveyancing. The student is never allowed to lose sight of the fact that he is being fitted to practice his chosen profession.

### **COLLEGE OF LAW LECTURE COURSE**

A course of lectures by prominent members of the bench and bar has been provided. The lectures are upon practical topics from the standpoint of the practitioner, and, among other subjects, will deal with patent, copyright and trademark law, the preparation of causes for trial, the presentation of causes to court or jury, the examination of witnesses and other branches of advocacy, land titles, professional ethics, commercial business, collections and adjustments, the organization and management of business corporations, office economy and the selection of a library.

### METHOD OF INSTRUCTION

The College of Law follows in the main the "Case" or "Source" method of teaching law. Instead of studying text-books upon which to recite, the students summarize, and prepare to expound and to comment upon in class, the important cases to which the text writers themselves must go for the law. This resort to the sources is made under the guidance of experienced instructors who supplement the class discussion of the cases with such information as the students require to enable them to understand the cases and the topics to which the cases relate. Students are often advised, and sometimes required, to read particular text-books, to supplement the work in the cases, and whenever there is occasion to do so the instructors lecture on particular legal problems. The great aim of the class work is to increase the student's accuracy of legal perception, his ability to analyze cases and extract the right principles from them, and his power to apply those principles to such more or less complicated facts as normally arise in legal practice; and especially to get an accurate acquaintance with legal relations as underlying legal rules.

### LIBRARIES

Students in the College of Law have access to various libraries, aggregating 242,500 volumes.

The College of Law library, which contains over 6,500 volumes of standard reference and text-books on the common law and of American and English law reports, is a branch of the University Library.

The University Library of 100,000 volumes includes the standard authorities and works of reference on international law, Roman law, jurisprudence and public law.

The State Library of 70,000 volumes at the Capitol is one of the best law libraries in the West, containing the law reports and statutes of all English-speaking jurisdictions.

The Lincoln City Library contains 31,000 volumes.

The Nebraska State Historical Society Library contains 35,000 volumes.

### PRIZES AND HONORS

**Excellence in First-Year Studies.** (1) For the three members of the first-year class who obtain the highest rank in the studies of the first semester, Dr. Roscoe Pound, formerly Dean of the College of Law, offers prizes—books to be selected by the donor. In 1910-1911, those who

received scholarship prizes were E. M. Cline and A. R. Raymond. The prizes were Holdsworth's History of English Law, Anglo-American Legal Essays and Tucker's Constitution of the United States. (2) For the member of the first-year class whose scholarship in the second semester displays the most marked improvement over that in the first semester, and who attains a grade of "E" in all his second-semester studies, Dr. Roscoe Pound also offers a prize—a book or books to be selected by the donor. No award in 1911.

**Edward Thompson Company Prize.** For the best thesis by a member of the third-year class the Edward Thompson Company of Northport, New York, offers The American and English Encyclopedia of Law or The Encyclopedia of Pleading and Practice. The thesis, which must be submitted to the Dean not later than the third Monday in May, must contain not less than 2,000 nor more than 4,000 words, must be satisfactory to the examining committee as to matter and style, and must be printed or typewritten on paper of uniform size and quality. No award for 1911.

**Legal Bibliography Prize.** To promote a practical knowledge of legal bibliography, the Dean of the College offers a prize, open to all students—any standard legal treatise, to be selected by the winner. This prize is awarded upon an examination held in the law library at the beginning of the second semester. The examination is both oral and written, embracing the principal reports, American and English, standard abbreviations and modes of citation, standard text-books, search for cases in the reports, identification of cases imperfectly cited, and use of digests. No award for 1911.

**Oratory.** The College of Law offers a first prize of \$35 and a second prize of \$15 for the best orations to be written and delivered by the regular students of the College of Law and the College of Medicine and by regular undergraduate students who have attained junior standing in the College of Arts and Sciences. The rules and regulations governing the oratorical contest are framed by the faculty of the College of Law. It is expected that the contest will occur sometime in April. In 1910-1911 the first prize was awarded to Joseph M. Swenson and the second to Clayton Samuel Radcliff.

**William Jennings Bryan Prize.** For the best essay on the science of government is offered annually the income of \$250, the gift of Hon. William Jennings Bryan. No award in 1911.

**Theta Kappa Nu.** The Theta Kappa Nu, the law scholarship fraternity, the Nebraska chapter of which was established in 1904, elect not less than

one-tenth nor more than one-sixth of the graduating class, solely on the basis of scholarship as shown by grades attained in the required law work for the entire course.

### ADVANTAGES AND PRIVILEGES

**Courts.** The College of Law occupies rooms in the University Hall within a few blocks of the law offices and courts. The Supreme Court, the District Court (in three divisions), the County Court and various minor courts are almost constantly in session during the school year. In addition to the various State Courts, the Circuit and District Courts of the United States for the District of Nebraska hold two terms in Lincoln each year. Exceptional facilities are thus afforded the student to hear the arguments of able counsel and to become acquainted with the workings of courts.

**Legislature.** The student has the opportunity each alternate year of attending the session of the Nebraska Legislature, where he may observe the process and forms of legislation. The course in legislation, given as a College of Law elective, brings students who take it in close touch with the work of the legislature.

**General College Privileges.** A student in the College of Law may, without paying additional fees, register for not more than five hours of work in the College of Arts and Sciences. Credit in the general colleges is not applied toward the degrees of those colleges, however, unless the matriculation and other fees of those colleges are regularly paid. Students taking advantage of this rule may not change their registration in the general college or drop any of the subjects registered for therein without paying the re-registration fee of \$3. Subjects peculiarly suitable to law students are American history, argumentation, comparative government, constitutional history, debate, diplomacy, English institutional history, ethics, political economy, political history, political science, public speaking, and sociology.

**Gymnasium.** The gymnasium is open to students of the College of Law. It is in charge of experts in physical training, who advise each student as to the character and amount of physical exercise adapted to his case.



# **The College of Medicine**

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION  
IN LINCOLN**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

ROBERT HENRY WOLCOTT, A. M., M. D., Acting Dean of the College of Medicine.

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.

BENTON DALES, Ph. D., Professor of Chemistry.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.

RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Pharmacology and Director of the School of Pharmacy.

WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.

CHARLES WILLIAM McCORKLE POYNTER, B. Sc., M. D., Professor of Human Anatomy.

FRANKLIN DAVIS BARKER, Ph. D., Associate Professor of Zoology.

HIRAM WINNETT ORR, M. D., Assistant Professor of the History of Medicine.

MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry.

GEORGE HEMAN WALKER, M. D., Adjunct Professor of Anatomy.

JAMES F. STEVENS, A. M., M. D., Adjunct Professor in Charge of Materia Medica.

LAWRENCE B. PILSBURY, A. B., M. D., Adjunct Professor of Bacteriology and Pathology.

JOHN JACOB PUTNAM, A. M., Adjunct Professor in Bacteriology and Pathology.

HENRY JOHN LEHNHOFF, A. B., M. D., Instructor in Surgery.

DAVID CLARK HILTON, A. M., M. D., Instructor in Anatomy.

J. STANLEY WELCH, A. B., M. D., Instructor in Physical Diagnosis.

EDWARD WINFIELD ROWE, B. Sc., M. D., Instructor in Materia Medica.

IRVING SAMUEL CUTTER, B. Sc., M. D., Instructor in Chemistry.

WALTER LEONARD ALBIN, M. D., Instructor in Pathology.

CLIFFORD WEBB WELLS, B. Sc., Scholar in Histology and Embryology.

**Committees of the Faculty in Lincoln**

Course of Study—the Dean (chairman), Professors Waite, Dales, Lyman,  
Doctor Pilsbury.

Publication—Professor Orr (chairman), Professors Guenther, Willard.

Advanced Standing—Professor Waite (chairman), Professors Willard,  
Stevens, Doctor Lehnhoff, the Dean.

Schedule of Classes—Professor Dales (chairman), Professor Barker, Doctor  
Rowe, the Registrar.

Convocation and Review Courses—Professor Lyman (chairman), Professors  
Guenther, Poynter, Doctors Welch and Cutter.

**OFFICERS OF ADMINISTRATION AND INSTRUCTION  
IN OMAHA**

WILLSON ORTON BRIDGES, M. D., Associate Dean of the College of Medicine and Professor of the Principles and Practice of Medicine and Clinical Medicine.

HAROLD GIFFORD, B. Sc., M. D., Professor of Ophthalmology and Otology.

RICHARD CHANNING MOORE, M. D., Professor Emeritus of Diseases of the Mind.

WILLIAM FORSYTH MILROY, M. D., Professor of Clinical Medicine and Physical Diagnosis.

AUGUST FREDERICK JONAS, M. D., Professor of the Practice of Surgery and Clinical Surgery.

HARRY MONROE McCLANAHAN, A. M., M. D., Professor of Pediatrics.

BYRON BENNETT DAVIS, A. B., M. D., Professor of the Principles of Surgery and Clinical Surgery.

FRANK STYLES OWEN, M. D., Professor of Laryngology and Rhinology.

ANDREW BARTHOLOMEW SOMERS, M. D., Professor of Obstetrics.

SOLON RODNEY TOWNE, A. M., M. D., Professor of Hygiene and State Medicine.

JOSEPH MELANCHTHON AIKIN, M. D., Professor of Nervous and Mental Diseases.

PALMER FINDLEY, A. M., M. D., Professor of Didactic and Clinical Gynecology.

ALFRED SCHALEK, A. M., M. D., Professor of Dermatology and Genito-Urinary Diseases.

ARTHUR CHARLES STOKES, B. Sc., M. D., Associate Professor of Genito-Urinary Surgery and Surgical Anatomy.

CHARLES WHITNEY POLLARD, A. B., M. D., Adjunct Professor of Obstetrics.

BURTON WHITFORD CHRISTIE, B. Sc., M. D., Instructor in Pediatrics.

ALFRED OLAF PETERSON, A. M., M. D., Instructor in Internal Medicine.

JAMES SAMUEL GOETZ, M. D., Adjunct Professor of Therapeutics.

- THOMAS TRUELSEN, M. D., Instructor in Physical Diagnosis and Clinical Assistant in Medicine.
- RODNEY WALDO BLISS, B. Sc., M. D., Instructor in Clinical Pathology and Internal Medicine.
- ROBERT RUSSELL HOLLISTER, A. B., M. D., Instructor in Surgery and Gynecology.
- CHARLES REX KENNEDY, M. D., Instructor in Surgery.
- HENRY BASSETT LEMERE, M. D., Instructor in Ophthalmology and Otology.
- ERNEST TIBBETS MANNING, M. D., Instructor in Medicine.
- WILLIAM PENALUNA WHERRY, M. D., Instructor in Laryngology and Rhinology.
- CHARLES CAMPBELL MORISON, A. B., M. D., Instructor in Surgery.
- CHARLES AARON HULL, M. D., Instructor in Surgery.
- JAMES McDOWELL PATTON, A. M., M. D., Instructor in Ophthalmology and Otology.
- ALFRED JEFFERSON, M. D., Instructor in Therapeutics.
- GLYNDON ALEXANDER YOUNG, M. D., Instructor in Mental and Nervous Diseases.
- NORA MAY FAIRCHILD, M. D., Clinical Assistant in Gynecology.
- JOHN CLYDE MOORE, JR., B. Sc., M. D., Clinical Assistant in Medicine.
- HOWARD BROWNLEE HAMILTON, M. D., Clinical Assistant in Medicine.
- CLARENCE RUBENDALL, B. Sc., M. D., Clinical Assistant in Laryngology and Rhinology.
- JOHN B. POTTS, M. D., Clinical Assistant in Ophthalmology and Otology.
- JOHN JOSEPH KLICK, M. D., Assistant in Dermatology.
- AUGUSTUS DAVIS CLOYD, M. D., Lecturer on Life Insurance Examinations.
- ALFRED ONIAS HUNT, D. D. S., Lecturer on Dental Surgery.
- GEORGE MOGRIDGE, M. D., Lecturer on Arrested Development, Glenwood, Iowa.
- ERNEST CLIFFORD PAGE, Ph. M., LL. B., Lecturer on Medical Jurisprudence.

**DISPENSARY STAFF**

Superintendent of Dispensary—Dr. Bliss.

Internal Medicine—Professors Bridges and Milroy; Assistants, Doctors Bliss, Hamilton and Moore.

Surgery—Professors Jonas and Davis; Assistants, Doctors Blodgett and Petr.

Eye and Ear—Professor Gifford; Assistants, Doctors Patton and Potts.

Nose and Throat—Professor Owen; Assistant, Doctor Rubendall.

Pediatrics—Professor McClanahan; Assistant, Doctor Christie.

Obstetrics—Professor Somers; Assistant, Doctor Pollard.

Gynecology—Professor Findley; Assistant, Doctor Fairehild.

Nervous Diseases—Professor Aikin.

Dermatology—Professor Schalek; Assistant, Doctor Klick.

Genito-Urinary Surgery—Associate Professor Stokes.

Drug-Room—James C. Tucker, B. Ph., B. Sc.

**. Committees of the Faculty in Omaha**

Students and Examinations—Professors Jonas and Milroy.

Faculty and Catalog—Professors Gifford and Findley.

Clinics and Lectures—Professors Bridges and Owen.

Laboratories and Dispensary—Professors Jonas and Findley.

Finance and Supplies—Professors Owen and Somers.

Employees—Professors Somers and Bridges.

Commencement and Entertainment—Professors Davis and Gifford.

Building, Grounds and Repairs—Professors Milroy and Davis.

## ORGANIZATION OF THE COLLEGE OF MEDICINE

By an agreement entered into in May, 1902, the Omaha Medical College became the College of Medicine of the University of Nebraska. The College thus incorporated into the University was founded in 1880 and had experienced strong and steady growth. As an integral part of the University, and gathering strength from that connection, the College has gone rapidly forward. The requirements for entrance have been raised step by step till now they are on a level with those of the best medical colleges, thus assuring a student body properly prepared for the improved advantages at its disposal.

The work of the first two years is now carried on at Lincoln. The University's laboratories, directed by well trained and experienced teachers, who devote their entire time to instruction, and with equipment adequate for thorough instruction in the ordinary subjects of the medical course, furnish a preparation which is a substantial basis for the clinical work. The work of the last two years is done at Omaha, where are afforded clinical facilities more than ample for all purposes of undergraduate medical instruction. The State Legislature of 1909 appropriated funds with which to purchase a site for a medical campus in Omaha and the Legislature of 1911 voted another appropriation of \$100,000, for a laboratory building on this campus. Plans are now being drawn for this, the first of a group of buildings expected to provide ultimately a complete medical college plant. When this building is completed the work of all four years will be given at Omaha.

## STANDING

The College of Medicine meets the requirements of the most exacting state examining and licensing boards and its diploma grants the holder all privileges accorded to graduates of any medical college in the United States. The Royal Colleges of Physicians and Surgeons in England has added the University of Nebraska to the short list of American institutions whose Graduates in Medicine may, on production of the required certificate of study, be admitted to the final examination before the Examining Board in Medicine, Surgery and Midwifery, which places them on the same basis as graduates of the best English colleges. This recognition is of especial interest to those students who are planning to take up work in foreign lands as medical missionaries.

## METHODS OF INSTRUCTION

The course of study in medicine covers four years, there being in each of the first three years thirty-two weeks of class work and in the senior year thirty, exclusive of all registration and examination days. During the first two years those laboratory sciences are pursued which form the basis for the clinical studies of the last two. The objective method is followed, not only in the laboratories, but also in the clinical instruction, where constant reference is made to the facts acquired from laboratory work in the fundamental branches. Emphasis is in all cases placed on individual effort on the part of the student, of whom is required work as independent as is consistent with the further demand that he thoroughly cover the field.

The course embraces also didactic and clinical lectures, in which effort is made by charts, models, experiments, demonstrations and other appropriate means to broaden the mind of the student and to coordinate the facts acquired in laboratory and clinic. Frequent quizzes and examinations test the student's progress in each line of work.

The College affords unique opportunities for the most thorough instruction. The moderate size of the classes insures close contact between student and instructor, which is of the utmost importance in securing an exact knowledge of the fundamental branches. The sectional method of clinical work also brings the individual student in intimate contact with his clinical instructors, affords him an opportunity to study each case thoroughly and at short range, and allows him to secure a very unusual amount of bedside instruction.

The student is urged to add to his preparation a fifth year taken as an interne in some hospital, or spent in some laboratory, and provision is made whereby the student may secure on the completion of this year a second degree,—Doctor of Medicine *cum laude*. But this fifth clinical year is now optional.

**Six-year Combined Course.** In addition to the four-year course leading to the degree of Doctor of Medicine, which must be preceded by two years of college work, there is offered a combined collegiate and medical course of six years. By the use of the laboratory subjects of the first two years of the medical course as electives in his collegiate course, the student is enabled to receive, at the end of four years, the degree of Bachelor of Science, and at the end of six years that of Doctor of Medicine. This can only be accomplished by following closely the course as outlined in later pages of this Announcement. A student registered for the degree

of Bachelor of Arts may arrange a similar course by the same use of his electives, but he will probably find it necessary to spend seven years to meet the requirements for the Bachelor of Arts degree, and to secure, at the same time, the scientific training required for the degree in medicine.

### ADMISSION TO THE COLLEGE OF MEDICINE

**Entrance Requirements.** For admission to the College of Medicine a candidate must present credentials showing that he has completed (1) a standard four-year high-school course entitling him to 30 entrance credits or "credit points"\*\* equivalent to those laid down as the minimum requirements of the Association of American Medical Colleges, and (2) two years of college work in this University or some other reputable college or university, including at least a year each of chemistry, physics, zoology, and German. This means that the graduate in medicine must have had at least six years of work above the four-year high-school course. The difference between the six-year combined course and the four-year course preceded by the required two college years lies in the fact that all of the work of the two preparatory years of the latter not being prescribed, there is latitude of election which will be of advantage to A. B. students and those who come from other colleges and universities and who do not seek a B. Sc. degree here. Two points of some importance should be noted in connection with this extended course. The initial years, if taken at the University of Nebraska, are not subject to the fees of the professional course, but demand only the moderate laboratory fees required of the general scientific student. Secondly, the work may be taken at any college of standard entrance requirements. There are many colleges which cover the introductory work noted in an eminently satisfactory manner, and in such cases the student with proper credentials may enter directly into the first year of professional work in medicine, i. e., of the four-year course.

For admission to the six-year combined course, the candidate must meet the entrance requirements demanded by the College of Arts and Sciences, which are 30 credit points. But to the required points necessary for admission to the College of Arts and Sciences, must be added two in physics, taken from the optional points. Conditional admission to the College of Arts and Sciences is permitted on a minimum of 28 entrance credits or

\* An entrance credit or "credit point" is given for the work of a class holding five recitations a week, of from 40 to 50 minutes each, for at least 18 weeks. In laboratory courses a credit or "credit point" is given for three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least 18 weeks.

"credit points" to graduates of accredited secondary schools; but all such conditions must be removed before the student may be admitted to the College of Medicine. Women are admitted to the College of Medicine on the same terms as men.

**High-School Credits—Required Subjects (17 or 19 points).** Of the 30 high-school "credit points" required for admission to both the four-year course and the six-year combined course, 17 or 19 points must be presented from the following subjects, the time element indicated with each being essential:

		4-year Course	6-year Combined Course
Algebra (Simultaneous quadratics and logarithms), 1½ years, 5 hours a week.....		3	3
English (rhetoric and literature), 2 years, 5 hours a week..	4		4
Geometry (plane), 1 year, 5 hours a week.....	2		2
History (European), 1 year, 5 hours a week.....	2		2
Language (Latin two years at least), 3 years, 5 hours a week .....			6*
Language (must be Latin), 2 years, 5 hours a week.....	4		
Physics (with laboratory work), 1 year, 5 hours a week...	2		2
	—	—	—
	17		19

**Optional Subjects (13 or 11 points).** In addition to these required subjects, for which no substitutes will be accepted, applicants must present 13 or 11 points from the following optional entrance subjects:

Agriculture, ½ year, 5 hours a week.....	1
Geometry (solid), and trigonometry, 1 year, 5 hours a week (each one) .....	2
History, 1 year, 5 hours a week.....	1 or 2†
English (only if taken after the required English), 1 year, 5 hours a week .....	1 or 2†
Language (ancient, modern), 1 to 4 years, 5 hours a week .....	2 to 8
Botany or Zoology, 1 year, 5 hours a week, each.....	2

\* The Committee on Accredited Schools may accept German or French to meet the required six points in the case of specially approved accredited schools.

† Two additional points are allowed to certain very strong schools named by the Accredited Schools Committee.

	4-year Course	6-year Combined Course
* Chemistry, 1 year, 5 hours a week.....		2
Physical Geography, $\frac{1}{2}$ year, 5 hours a week.....		1
Other subjects taught in an approved manner in an accredited secondary school (one point each).....	6	
Total optional points .....	13	11

**College Credits.** To fulfil the two years college requirement demanded for entrance to the College of Medicine the prospective student must present credentials showing the completion of work equivalent to 60 university "hours" and including:

Physics, 6 hours; Zoology, 6 hours; Chemistry, 10 hours; German, 10 hours.

Conditional admission is allowed with a minimum of 51 hours if the character of the student's preparation is such that during the first year and the following Summer Session, in which is permitted registration up to 9 credit hours, all deficiencies can be removed and the work of the first year also be completed in full.

**Entrance from "Accredited" Schools.** The University maintains a list of "accredited" high schools and academies whose *graduates* are admitted to any undergraduate college or school of the University without examination in those subjects in which their work is duly certified. A candidate for admission submitting credentials from a non-accredited school must be prepared to take examinations. A student desiring to ascertain in advance of the opening of the school year whether or not he may be admitted to the freshman class should apply to the Registrar of the University or the Dean of the College of Medicine for blank credential slips; when these are properly filled out and returned, he will be informed at once whether or not his credentials are acceptable, and what will be required of him. In all cases the entrance credits are passed upon by the Registrar in frequent consultation with the Inspector of Accredited Schools. It is highly desirable that all candidates for admission forward their entrance credentials at least one month in advance. Although properly prepared students who cannot enter at the beginning of the year may be admitted later, all students who can possibly do so are urged to be present at the beginning of

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\* While Chemistry is not among the required entrance points, students will find it of great advantage to have a year of high-school Chemistry for entrance.

the year. Students entering late are at much disadvantage and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session. However, plans are made so that students who enter at the opening of the second semester may arrange a suitable program of work.

**Advanced Standing.** Advanced standing may be granted under the following conditions: (1) Applicants for advanced standing must offer admission credits equal to those required by this college. (2) In accordance with the recommendation of the Association of American Medical Colleges, the College of Medicine does not grant any time credit toward the M. D. degree to holders of a bachelor's degree; this means that the total time spent by each student taking his medical degree must include as a minimum four years of registration in a medical college. (3) Students coming from other medical colleges of equal standing and maintaining the same entrance and course requirements are, on presenting certificates of honorable dismissal, admitted to the corresponding class in this institution. Students from medical colleges of less standing and not maintaining the same entrance and course requirements are only admitted to the class into which the subject credit secured entitles them to enter, and are also required to make up all entrance deficiencies. (4) There will be no change in the practice heretofore observed concerning subject credit, the granting of which is at the discretion of the head of each department, subject to the meeting of such conditions or the passing of such examinations as he may with reason impose. Admission to any class does not necessarily carry with it credit in all work previously done by the class, since the head of any department has the right to demand satisfactory evidence of the completion of previous work in that subject equal to that required of the student of this College, and in case the work is not equal to such requirement the deficiency stands against the student as a "condition" till removed. In case subject credit is granted in excess of that previously done by students of the class into which the applicant enters, he is free to use the time thus gained in such extra work as he may elect. Thus students who come from high grade colleges and have completed a portion of the required work may be enabled to pursue studies for a master's degree or to go into advanced courses in any department in which they are prepared to work.

**Adult Special Students.** When circumstances are such as to allow it without detriment to the work of candidates for degrees, a student not seeking a degree may be admitted as an unclassified "Adult Special"

student. A junior or a senior in the College of Arts and Sciences may, with the consent of the department involved, take any of the courses offered in the College of Medicine by registering as an unclassified student in this College and paying the laboratory fees attached to the course or courses chosen and also a pro rata tuition fee; provided, however, that the tuition charge for any course in the College of Medicine so taken by a student in either of the general colleges shall in no case be less than \$5.00 a semester.

**Registration.** Certain days at the beginning of each semester are allowed for registration. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days. A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. A student taking the college work required for entrance to the College of Medicine matriculates and registers in the College of Arts and Sciences until the necessary amount of college work is completed. A student taking the combined six-year course for the degrees of Bachelor of Science and Doctor of Medicine matriculates and registers only in the College of Arts and Sciences during the first two years of his work. He continues to register in the College of Arts and Sciences during the next two years, or until he receives his B. Sc. degree; but he must also matriculate and register in the College of Medicine at the beginning of the third year's work and must register regularly thereafter in the College of Medicine. If he is a candidate for the A. B. degree, he must begin to register also in the College of Medicine not later than the beginning of the fourth year of his course, as at least four years' registration in a college of medicine is required of all who receive the M. D. degree. No regular student is registered for less than twelve (12) hours a semester without the Dean's permission, nor under any condition for more than eighteen (18) hours. No student may add any subject to his schedule or drop from it any subject for which he has been regularly registered, without written permission from the Dean. Students cannot attend classes for which they are not registered and credit is not granted for studies pursued without registration. Any change in a student's residence must be immediately reported to the Registrar.

#### REQUIREMENTS FOR GRADUATION

The degree of Doctor of Medicine is granted only under the following conditions:

1. The candidate must be twenty-one years of age.

2. He must possess a good moral reputation.
3. He must have complied with all the requirements of admission and must have paid all his fees.
4. He must have completed and have secured credit in all required subjects in the curriculum.
5. He must have pursued the study of medicine for at least four years and must have passed the necessary examinations and have received credit for at least four full years of instruction at medical colleges in good standing. The last year he must have taken in this institution.

**Credit.** In accordance with the Constitution of the Association of American Medical Colleges, each student is obliged to attend at least 80 per cent of the exercises in every annual course of study for which he seeks credit. No student is given credit on examination unless he attains a grade of at least 70 per cent, or its equivalent in any other marking system. And no student is graduated unless he has secured credit in all subjects of the required curriculum. By vote of the clinical faculty the passing grade for medical students in the third and fourth years of the course is 75 per cent, which is the grade required in licensing examinations of the Nebraska State Board of Health.

**Absence or Withdrawal.** The Dean of the College of Medicine is the adviser of all students in the College of Medicine. He has a consultation hour in the dean's room, Administration Hall 104, where students may call seeking advice touching their work. A leave of absence for a short time may be granted a student by the dean of his college. This leave is merely a justification for absence and not an excuse from any work. Students not previously excused must make request for excuse for absence within two weeks from time the absence ceases. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Registrar grants him permission to do so. If he is in good standing and is not a minor he is given honorable dismissal from the University at his own request; if a minor, at the request of his parents or guardian.

#### FEES AND EXPENSES

**Fees.** All fees and charges to students in Lincoln are payable in advance to the Secretary of the University; to students in Omaha, at the office of the College in the College building. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter in-

stances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a course or from the University. The schedule of fees in the College of Medicine is as follows:

Matriculation fee .....	\$5
Diploma fee .....	5
Diploma fee, in absentia, additional.....	10
Diploma, "cum laude," fee .....	10

No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.

#### FIRST-YEAR AND SECOND-YEAR FEES—LINCOLN

Tuition, first semester (or any single semester).....	\$25
Tuition, second semester .....	20
Incidental, each semester (6-year combined course).....	3

#### LABORATORY FEES

Anatomy 1 .....	\$15
Anatomy 2 .....	10
Anatomy 3 .....	5
Anatomy 8 .....	3
Anatomy 11, 12 .....	graduated
Bacteriology 1 .....	8
Botany 1, 2 .....	each 2
Chemistry 41 .....	2
Chemistry 1, 2, 34 .....	each 5
Chemistry D, 1 and 2 combined, 3.....	each 10
Clinical Diagnosis (Pathology 4).....	4
Histology and Embryology 1 and 11 .....	6
Histology 4 .....	5
Histology (Organology), 12 .....	4
Histology 13, each credit hour .....	2
Histology 1a, 15.....	2
Materia Medica (Pharmacology 4).....	2
Pathology 2 .....	10
Pharmacy (Pharmacology 1) .....	5
Pharmacodynamics (Pharmacology 2) .....	10
Physical Diagnosis (Physiology 14) .....	2
Physics 11 .....	4

Physics 12, { 3 hours credit .....	\$4
4 hours credit .....	8
Physiology 12 .....	9
Physiology 13 .....	6
Zoology 1, 2, 7, 15.....	each 2
Zoology 6 .....	5
Zoology A .....	4

## JUNIOR YEAR—OMAHA

Fees for all required exercises, including all laboratory and clinic fees, \$80	
Breakage deposit .....	10
Examination fee .....	10
Experimental Surgery, laboratory fee.....	5

## SENIOR YEAR—OMAHA

Fees for all required exercises, including laboratory and clinic fees....	\$80
Breakage deposit .....	10
Examination fee .....	10

Breakage in the laboratory and damage to the college property are charged to the individual or class responsible. In case the damage can not be located, it is charged the class pro rata.

All fees are payable strictly in advance when the session opens. A student is not entitled to appear for any one of his final examinations until all his fees are paid.

A graduate of any recognized medical college who desires to attend the Omaha clinical work of the University of Nebraska College of Medicine may do so by paying a fee of \$10.

**Expenses.** In Omaha board and lodging cost from \$3 to \$5 a week. By means of clubs students materially reduce this expense. The Young Men's Christian Association issues to students in the College of Medicine special season tickets at a very small cost, granting the privileges of the association's building—baths, gymnasium, parlors, lectures and concerts. Elegantly equipped rooms may be rented at reasonable prices. The location relative to the College makes the Young Men's Christian Association building a convenient home for the students. In Lincoln board and lodging may be secured in private families for from \$3 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and the Young Women's Christian Association of the University keep lists of boarding places. The Young Men's Christian Association of the

University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

### GRADUATE WORK IN MEDICINE

To provide a still more thorough training in medicine the College of Medicine offers an additional optional year of graduate study, consisting of (1) research work in any one of its departments; or (2) work as an interne in some approved hospital; or (3) advanced study in some appropriate field at a research laboratory or other institution of higher learning, together with the preparation of a thesis. This thesis must embody the results of independent observation and investigation in connection with any one of the types of work mentioned above and the subject must be approved at the beginning of the work by the student's advisory committee. This thesis shall be presented to the advisory committee at least one month prior to the date of taking of the degree and shall be by them placed where members of the faculty may freely examine it.

On completion of the required work and the presentation of a satisfactory thesis, the student may receive the degree of Doctor of Medicine *cum laude*, provided he is favorably recommended to the faculty by his advisory committee and the faculty by unanimous vote approves the recommendation.

A student desiring to become a candidate for this fifth year's work should indicate his purpose in writing with the Dean on or before Commencement Day of the year preceding such advanced study. His advisory committee, the chairman of which must be a member of the faculty of this college and either the head of the department in which he is to work or the chief of staff of the hospital in which he is to serve as interne, will be appointed at once and take charge of his work.

Normally, hospital internships are taken in some one of the affiliated hospitals; all other cases must be the subject of specific request and approval by the faculty on recommendation of the Deans. Approval must also be secured from any non-affiliated hospital elected, and the chief of its staff must express in writing his willingness to accept the interne and to carry out the conditions laid down by the committee for his work.

The candidate must also secure permission in order to undertake work at a research laboratory or other institution, and must fulfill all conditions which his committee may impose.

## EQUIPMENT

**The work in Lincoln** is given in the various laboratories of the University, which are well equipped with the necessary apparatus. A more detailed description of the facilities provided is found in connection with the announcement of courses given by different departments.

**The college building in Omaha**, completed in 1899, and situated at the corner of Twelfth and Pacific streets, is a brick and stone structure, having four stories above the basement. On the first floor are the faculty room, the students' lobby, and the free dispensary. The latter comprises a waiting room for patients, a pharmacy, a dispensary laboratory, and numerous departmental clinic rooms for the systematic examination and treatment of patients. On the second floor are the offices, the amphitheatre with a seating capacity for 250, the library, the reading room, and a commodious coat room. On the third floor are the museum, chemical laboratory thirty by fifty feet in size, private rooms for the professors of surgical anatomy, clinical chemistry, and pathologic anatomy, and a smaller amphitheater with a stationary table to which gas and running water are supplied for practical demonstrations in these branches. The fourth floor is wholly given up to microscopic work. The laboratories, occupying a space one hundred by thirty-five feet, have light on every side. Stationary tables for the preparation and mounting of specimens occupy the center of the room. These tables are supplied with gas and running water and are made as convenient as possible to conserve the student's time. In front of each window is a table furnished with gas attachments and Bunsen burners. In this room are lockers so that each student has a safe place for his working outfit. The clinical and pathological laboratories are commodious and provided with abundant light. The arrangement is such that the class may, at a moment's notice, be assembled from the laboratory desks to recitation benches at one end of the room, where demonstrations may be made from gross specimens by the use of series of blackboards or by means of projection apparatus. These laboratories are provided with a lantern, a projection microscope and a complete Zeiss epidiascope, as well as a collection of slides, models and charts. Clinical laboratory instructors are included in the faculty, the clinical laboratories are thoroughly equipped, and much time is devoted to the study of clinical pathology in the laboratories in connection with the lectures and clinics. The museum has been enlarged and affords a large variety of well-selected material for demonstration.

### CLINICAL FACILITIES

For practical teaching in all departments of medicine and surgery, this College has unusual clinical facilities. Its students have access to seven hospitals, in five of which the College has exclusive clinical privileges.

**The College Dispensary.** The College Dispensary on the first floor of the College building is designed for the gratuitous treatment of all worthy charitable cases that may apply. The space assigned includes a large reception room and adjoining consultation rooms for the separate examination and treatment of cases in surgery, medicine, gynecology, pediatrics, eye, ear, nose, throat, skin and genito-urinary diseases. Members of the clinical faculty and their assistants are in daily attendance from twelve to two o'clock. Students in the senior class are divided in rotation among the different departments, whereby they are put in close touch with the histories, examinations, diagnoses, and treatment of cases. The material available is ample to demonstrate the usual diseases and accidents met with in practice. Selected cases are demonstrated and discussed with especial care before the entire class. Advanced students are often sent out from the clinic to see urgent cases at their homes and to make reports thereon to the instructor in charge. Students who have not had experience in dispensing drugs are assigned in rotation to the pharmacy in connection with the dispensary, where they are instructed in writing and reading prescriptions and in compounding and dispensing drugs. This pharmacy is under the direction of a registered pharmacist.

**The Nebraska Methodist Hospital.** In the Nebraska Methodist Hospital, which received about 1,450 patients last year, this college has exclusive clinical privileges. A new, commodious, fire-proof building, planned by one of the best architects in the country and embodying the most modern details of construction and arrangement, has been recently erected. It contains an operating pavilion and amphitheater seating about 100 students and is furnished with the best appliances known. At this hospital weekly clinics are held throughout the session for the advanced class in surgery, orthopedics, internal medicine, and ophthalmology and otology. From the graduating class three internes are selected for a year's service each, with provisional opportunities for extended work.

**The Immanuel Hospital.** In the Immanuel Hospital this College also has exclusive clinical privileges. This hospital is well arranged and thoroughly equipped for the application of scientific methods in the treatment of disease. It contains an operating amphitheater, accommodating about

eighty students, with the seats so arranged that each student has an unobstructed view of the operator or instructor. An addition to the building is completed which increases its capacity to one hundred and twenty beds. Weekly clinics are held in internal medicine and surgery. Occasionally there are clinics in laryngology and rhinology. From the graduating class two resident physicians are appointed soon after Commencement to serve one year. One or more students are given positions as assistants in their senior year.

**The Douglas County Hospital**, costing \$200,000 and accommodating 300 patients, includes a maternity pavilion and an insane department. There has lately been added a pavilion for the modern treatment of cases of consumption. This institution is in reality the charity hospital of Omaha and the surrounding country. Since cases illustrative of all diseases, acute and chronic, occurring in this section of the country are found here, the students of this college have exceptional opportunities for direct bedside instruction in all departments. Regular clinics are held weekly in medicine, genito-urinary diseases, dermatology, gynecology, mental diseases and obstetrics. Two resident physicians are appointed on competitive examination each spring for a term of one year. Always one and frequently both of these have been graduates of this college.

**The Clarkson Memorial Hospital**, a new modern building, located at Twenty-first and Howard streets, within an easy walk of the College, was occupied in the spring of 1909. It is a thoroughly modern hospital building, and has 70 beds and two operating rooms. The hospital affords opportunities for two internships. Clinics in therapeutics, medicine, ophthalmology and otology, and gynecology are held weekly in the amphitheater.

**The Wise Memorial Hospital**, This hospital has been rebuilt and trebled in size. The new building is of stone, pressed brick and iron construction; it is modern in every respect. There are sixty-one beds and two well equipped operating rooms. Clinics in medicine, otology, and rhinology are held weekly in the amphitheaters. One interne is chosen from the graduating class each year for a service of one year. The hospital is located within walking distance of the College.

**The Swedish Mission Hospital**, located at Twenty-fourth and Pratt streets, has a capacity of 45 beds. The operating room is provided with an amphitheater for students. Surgical clinics are held here by appointment by Professor Stokes. Two internes are appointed each year from the graduating class.

In the **Child-Saving Institute** this College has exclusive clinical privileges. The Institute now occupies a new building especially constructed for its use, on Forty-second and Harney streets, directly across the street from the new clinical campus. The new building embodies all the latest improvements; it contains operating and sterilizing rooms and isolating wards. The opportunities here for the study of the dressing, care and feeding of infants, and of the diagnosis, progress and treatment of the different gastro-intestinal and contagious diseases of childhood are unexcelled. Occasional outbreaks of infectious diseases in the constantly-changing inmates afford unusual opportunities for illustration of the subjects taught in the course of pediatrics.

### HOSPITAL APPOINTMENTS

The Glenwood Institute for the Feeble Minded affords a salaried physician as a house physician for one graduate in medicine each year. At the Douglas County Hospital two internes are appointed by competitive examination each year. Two internes are chosen by competitive examinations given by the medical staff of the Omaha General Hospital. The following internships are filled exclusively from the graduating class of the College of Medicine for a service of one year; three at the Nebraska Methodist Hospital; two at the Immanuel Hospital; two at the Clarkson Memorial Hospital; one at the Wise Memorial Hospital; two at the Swedish Mission Hospital.

Several graduates of the College secure positions each year in other hospitals in Nebraska and adjacent states. The faculty receives frequent inquiries from superintendents of hospitals desiring recent graduates for such positions. The proportionate number of these positions open to the college will thus be seen to be far beyond that open in the majority of medical colleges, and under present conditions all capable students desiring hospital training may obtain the inestimable advantage of a year's hospital service before entering upon private practice.

Two graduates may also secure for six months of each year positions as assistant police surgeons. This is a valuable experience, as from fifty to one hundred emergency cases are treated by these men each month. In addition to regular internships for the graduating class opportunities are afforded several students of the senior class to serve in the various hospitals affiliated with the College of Medicine. These positions do not conflict with the scheduled work of the College, and supply valuable experience to the students so engaged.

## PUBLIC ADDRESSES

To give medical students knowledge at first hand of important movements in medicine and allied sciences special convocations are held several times each year in Lincoln and Omaha on such dates as it is possible to secure speakers from abroad. Members of the medical faculty in Lincoln also give occasional addresses of general interest on medical subjects at the regular University convocations. In furtherance of the same idea the College of Medicine has aided in the formation within the Nebraska State Teachers' Association of an auxiliary section on "Popular Medical Education," the object being to discuss medical subjects of practical importance in our public schools.

## LIBRARIES, PUBLICATIONS AND SOCIETIES

**In Omaha** the College of Medicine library contains about 1,000 volumes, including an up-to-date collection of text-books covering the entire range of medical science. This collection does not obviate the necessity of students having their own text-books, but offers greater opportunities for investigation of subjects in which they are specially interested. Periodical literature is also on file. The Omaha Public Library contains 60,000 volumes, including a good medical library, the use of which is free to students in the College.

**In Lincoln** the following libraries, aggregating 236,000 volumes, are accessible to students: The University Library of 100,000 volumes, particularly strong in those scientific lines wherein lies the first two years' work of the student of medicine, and including special departmental libraries in botany, chemistry, hygiene, physiology, zoology, bacteriology, pathology, and medicine. The Lincoln City Library, of 31,000 volumes, has an alcove devoted exclusively to medical literature. The State Library of 70,000 volumes at the Capitol, includes valuable medical works in certain lines. The Nebraska State Historical Society Library of 35,000 volumes, contains useful series of public documents, such as reports of state boards of health and of state hospitals and other institutions.

**The Bulletin.** The College of Medicine publishes an annual Bulletin, of the nature of a year-book and offered in exchange for other medical and college publications.

**The Alumni Association** of the College of Medicine maintains an active and efficient organization, of advantage to both the graduates and the University. In order that the College may keep in touch with its Alumni

they are requested to notify the Registrar and the secretary of the association when they change their address.

**The Clinical Review Week**, tried as an experiment in the fall of 1910, and repeated in 1911, has proven so successful that it has been determined to make it an annual affair. The dates selected in 1911 were November 6 to 11, inclusive; those for 1912 have not been selected, but will probably be somewhat earlier. The forenoons are devoted to clinics, the afternoons to round-table discussions and the evenings to social pleasures.

**The Pathological Society** is a club composed of members of the faculty in Lincoln which meets weekly for reviews of recent literature, reports or investigations carried on by its members, and the discussion of current scientific problems of medical interest.

**The Medical Society** of the University of Nebraska, at Lincoln, is a student organization to membership in which any student in the University at Lincoln looking forward to medicine is eligible. Meetings are held periodically, some of which are addressed by members of the faculty or others invited to do so; other meetings are purely social.

#### GENERAL COLLEGE PRIVILEGES

Students in the College of Medicine have the privileges of other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of physical exercise adapted to his case. For engaging in athletics there is abundant opportunity. Military drill is required of all students in the college years preparatory to the work in medicine, and in the first two years of the six-year combined course.

**The Summer Session** of the University affords opportunities to make up deficiencies in entrance requirements and in certain lines of laboratory work.

**ORDER OF SUBJECTS IN THE SIX-YEAR COMBINED  
ACADEMIC AND MEDICAL COURSE**

All students are urged to take this course, if possible, since it affords the best possible training with the greatest economy of time, and furthermore gives the student the advantage of possessing the bachelor's degree.

	FIRST YEAR	1st Semester Hours	2d Semester Hours
Chemistry 1, 2 .....	.....	2	2
Botany 1, 2 .....	.....	3	3
General Zoology (Zoology 1a, 2a).....	.....	3	3
Rhetoric 1, 2 .....	.....	2	2
Modern Language (German) .....	.....	5	5
Military Drill .....	.....	1	1
	—	—	—
	16	16	16
SECOND YEAR			
Physics 11, 12 .....	.....	3	3
Volumetric Analysis (Chemistry 8).....	.....	4	
Medical Zoology (Zoology 15).....	.....	2	
Vertebrate Anatomy (Zoology 6) .....	.....		4
Osteology (Zoology 7) .....	.....	2	
Modern Language (German or French).....	.....	5	5
Psychology (Philosophy 3) .....	.....		3
History of Medicine.....	.....		1
Military Drill .....	.....	1	1
	—	—	—
	17	17	17
THIRD YEAR			
General and Practical Anatomy (Anatomy 1, 2).....	.....	5	5
General Physiology (Physiology 12).....	.....		6
Embryology and Histology 1, 11, 12.....	.....	4	3
Physical, Organic and Physiological Chemistry (Chemistry 3, 25, 34) .....	.....	7	4
	—	—	—
	16	16	18

	FOURTH YEAR	1st Semester Hours	2d Semester Hours
Regional Anatomy (Anatomy 3).....		3	
Neurology (Anatomy 8, Histology 15).....		2	2
Advanced Physiology (Physiology 13).....		4	
Pharmacodynamics (Pharmacology 2).....			5
Bacteriology 1 .....		4	
Pathology 2 .....			6
Toxicology (Chemistry 41) .....		2	
Pharmacy (Pharmacology 1).....		1	
Materia Medica (Pharmacology 4).....			2
Physical Diagnosis (Physiology 14).....			1
		—	—
		16	16

## FIFTH AND SIXTH YEARS

The work of the last two years is identical with that of the Junior and Senior years of the Four-year Course below:

## ORDER OF SUBJECTS IN THE FOUR-YEAR MEDICAL COURSE

	FRESHMAN YEAR	1st Semester Hours	2d Semester Hours
General and Practical Anatomy (Anatomy 1, 2).....		5	5
Organic and Physiological Chemistry (Chemistry 3, 34) .....		5	4
General Physiology (Physiology 12).....			6
Embryology and Histology 1, 11, 12.....		4	3
Osteology * .....		1	
		—	—
		15	18

## SOPHOMORE YEAR

Regional Anatomy (Anatomy 3).....	3	
Neurology (Anatomy 8, Histology 15).....	2	2
Advanced Physiology (Physiology 13).....	4	
Toxicology (Chemistry 41) .....	2	
Pharmacodynamics (Pharmacology 2).....		5
Bacteriology 1 .....	4	
Pathology 2 .....		6
Pharmacy (Pharmacology 1) .....	1	
Materia Medica (Pharmacology 4).....		2
Physical Diagnosis (Physiology 14).....		1
	—	—
	16	16

\* For those who have not had the subject in the required college years.

	JUNIOR YEAR	1st Semester Hours	2d Semester Hours
Special Pathology		1	1
Therapeutics		2	2
Sanitation and State Medicine			1
Surgical Anatomy		1	
Physical Diagnosis		2	2
Medicine		4	4
Surgery		4	4
Obstetrics		2	2
Pediatrics		1	
Ophthalmology and Otology			1
		—	—
		17	17
SENIOR YEAR			
Laryngology and Rhinology		1	1
Gynecology		2	2
Surgery Conference and Practice		3	3
Obstetrics		2	2
Mental and Nervous Diseases		1	1
Dermatology		1	1
Therapeutics		1	1
Jurisprudence			1
Life Insurance Examinations		1	
Ophthalmology and Otology		1	1
Medicine		3	3
		—	—
		16	16

NOTE—Dispensary and sectional clinics in addition throughout the year.

THE COLLEGE OF MEDICINE

## **HOURS DEVOTED TO EACH SUBJECT**

(Sixteen weeks of actual class instruction in each semester except the last of the senior year, which has fourteen.)

	First Year	Sec'd Year	Third Year	Fourth Year	Entire Course	Total	
	Lect. and Recit.	Laboratory	Lect. and Recit.	Laboratory	Lect. and Recit.	Laboratory	
					Clinics	Clinics	
<b>ANATOMY:</b>							
Gross and Practical.....	112	288	64	.....	112	352	
Nervous System.....	.....	16	32	.....	.....	.....	
Applied and Surgical.....	.....	32	32	.....	16	32	
Histology.....	56	128	16	32	64	32	
Embryology.....	24	64	.....	.....	72	160	
<b>CHEMISTRY:</b>					24	64	
Organic.....	80	128	.....	.....	80	128	
Physiological.....	64	112	.....	.....	64	112	
Toxicology.....	.....	48	48	.....	48	48	
<b>PHYSIOLOGY:</b>					112	176	
Physical Diagnosis.....	64	128	48	48	16	32	
<b>PHARMACOLOGY:</b>					64	128	
Pharmacy.....	.....	48	.....	.....	64	96	
Pharmacodynamics.....	.....	64	96	.....	32	32	
Materia Medica.....	32	32	.....	.....	64	96	
<b>BACTERIOLOGY:</b>					32	32	
<b>PATHOLOGY:</b>					64	128	
General.....	.....	80	160	.....	80	160	
Clinical Diagnosis.....	.....	32	32	64	32	96	
Surgical.....	.....	.....	32	.....	32	32	
<b>THERAPEUTICS:</b>					126	126	
(Assignment to (Drug-room work)	.....	96	.....	30	126	126	
<b>MEDICINE:</b>					.....	.....	
Physical Diagnosis.....	.....	32	32	.....	32	32	
Internal Medicine.....	.....	160	96	90	120	250	
Tropical Diseases.....	.....	.....	.....	12	12	216	
(Assignment of Sections to Clinical Laboratories)	.....	.....	.....	.....	.....	.....	
<b>SURGERY:</b>					.....	.....	
Fractures and Dislocations.....	.....	.....	16	.....	16	16	
Principles.....	.....	96	.....	.....	96	96	
Bandaging & Dressing.....	.....	32	.....	.....	32	32	
Practice.....	.....	.....	.....	30	30	30	
Conference.....	.....	.....	.....	30	30	30	
Quizzes.....	.....	64	.....	30	94	94	
Clinics and Instruction in Anesthetics.....	.....	.....	160	.....	120	280	
					(Assignment of Sections to Operative Surgery, Experimental Surgery, Dispensary, etc.)		

## HOURS DEVOTED TO EACH SUBJECT—Continued

	First Year	Sec'd Year	Third Year			Fourth Year	Entire Course			Total
	Lect. and Recit.	Laboratory	Lect. and Recit.	Laboratory	Lect. and Recit.	Laboratory	Clinics	Lect. and Recit.	Laboratory	
SANITATION AND HYGIENE.....										32
GYNECOLOGY.....										120*
OBSTETRICS.....	(A ssi g n m e n t to De mon stra tio ns, et c.)	32 96	60	30	30	32 60	30	30		156*
DISEASES OF EYE AND EAR.....	(A ssi g n m e n t to Dis pen sa ry)		46	30	46			30		76*
DISEASES OF NOSE AND THROAT.....	(A ssi g n m e n t to Dis pen sa ry)		46	16	46			16		62*
MENTAL AND NERVOUS DISEASES.....	(A ssi g n m e n t to Dis pen sa ry)		30	30	30			30		60*
PEDIATRICS.....	(A ssi g n m e n t to Dis pen sa ry)	16	32	30	60	46		92		138*
DERMATOLOGY.....										62*
GENITO-URINARY DISEASES.....										122
Medical Jurisprudence.....										12
Drug-room and Dispensary.....			150						150	150
	400	848	416	752	688	128	352	150	582	30 498 2086 1758 850 150 4844
Total for each year.....	1248	1168			1318			1110		4844
	1st yr.	2d yr.			3d yr.			4th yr.		Entire Course

\*The time assigned to these departments is really somewhat greater, since they share in the dispensary work; it is difficult, however, to estimate this increment exactly.

**DIDACTIC AND LABORATORY INSTRUCTION\*****ANATOMY**

Professor Poynter, Adjunct Professor Walker, Dr. Hilton; in Omaha,  
Associate Professor Stokes

This department aims to present the subject of human anatomy in a thoroughly scientific manner. The laboratory work is done under constant surveillance. Drawings of regions on the subject as exposed by dissection are required wherever important relations exist. The student is required to take frequent individual quizzes upon the cadaver; to demonstrate all parts dissected to a demonstrator; to attend class quizzes two or three times a week; to pass occasional review quizzes and on the completion of all dissections to pass an individual oral examination on the entire subject. The lectures supplement the laboratory work, dealing with such facts from embryology, comparative vertebrate anatomy, etc., as will add breadth to the student's view of the field.

Courses in general zoology and comparative anatomy of vertebrates must precede the work of this department. In the first year of the course the ground covered is osteology, the descriptive anatomy of the entire body except the head and neck together with the topographical anatomy of the trunk. In the third semester the study of the head and neck is taken up in a very detailed manner. The anatomy of the nervous system is taken up in the third semester and is very closely correlated with the other work of this semester.

The laboratory occupies rooms for lectures and quizzes, for osteology, for dissection, locker-room, preparation room, and store rooms. The dissecting room is divided into small rooms, one for each table, each under a large skylight and each provided with electric lights for dark days. To assist the student in his work, charts, models, anatomical preparations and carefully selected works of reference are close at hand for ready consultation.

**1. General and Practical Anatomy**—Introductory principles; general descriptive anatomy. Laboratory work; osteology; dissection of human arm, leg and trunk exclusive of viscera. Three hours attendance. Eight

\* For details in regard to courses in Language and Rhetoric, the reader is referred to the catalog of the College of Arts and Sciences.

hours laboratory with demonstrations. Five hours credit. First semester, freshman year. Poynter, Walker, and Demonstrators

**2. General and Practical Anatomy**—1 continued. Laboratory work; dissection of viscera and genito-urinal organs, together with topographical anatomy of the trunk; practical application of detailed relationships. Three hours attendance. Eight hours laboratory. Five hours credit. Second semester, freshman year. Poynter, Walker, and Demonstrators

**3. Advanced General Anatomy**—Lectures and demonstrations; topographical anatomy. Laboratory work, dissection of the head and neck. Two hours lecture. Four hours laboratory. Three hours credit. First semester, sophomore year. Poynter

**5. Surgical Anatomy**—Lectures, illustrated by charts, models and museum specimens; practical work on the cadaver. Designed to apply anatomy to surgery. Two hours lecture. First semester, junior year.

Stokes

**8. Anatomy of the Nervous System**—Lectures illustrated by charts and models covering the points that will later have special significance in surgery. Laboratory work; detailed study of the human brain. One hour lecture. One hour quiz. Four hours laboratory. Two hours credit. First semester, sophomore year. Poynter

**11. Advanced Anatomy**—For those who have had Anatomy 1, 2 and 3, or a complete dissection of the body, and who desire to review the subject or to cover the anatomy of certain regions. Credit from two to five hours. Fee graduated. Elective. First semester. Poynter

**12. Advanced Anatomy**—Continuation of course 11. Second semester.

## BACTERIOLOGY AND PATHOLOGY

Professor Waite, Adjunct Professor Putnam, Doctor Pilsbury,  
Doctor Albin

### BACTERIOLOGY

This course aims to build a firm foundation for the subsequent practical work in bacteriology. The study of form, structure, multiplication, requirements of growth and the chemical products is followed by applying the facts acquired to fermentation and putrefaction. In the latter half of the course pathogenic organisms are dealt with exclusively. The various ways in which bacteria gain entrance to the body, the changes which they bring about, and their final removal from the body are thoroughly ex-

plained. Attenuation and immunity are carefully discussed. Each of the bacterial diseases is then considered from the point of view of etiology. In the laboratory the preparation of culture media is first taken up. This is followed by a study of their growth on the various media. By these means both non-pathogenic and pathogenic organisms are isolated and identified. A thorough grounding in disinfection and sterilization is required by practical application of the principles discussed in lecture. Animals are inoculated in the presence of the class, which is required to isolate the organisms from the tissues of the animal and grow them in pure culture. Special attention is given to the practical bearing of methods of bacteriological diagnosis.

1. **Bacteriology**—Four hours lecture and quizzes. Eight hours laboratory. Four hours credit. First semester, sophomore year.

Waite, Putnam

#### PATHOLOGY

The subject of general pathology is thoroughly reviewed. The origin of disease, disturbance of circulation, retrograde changes, inflammation and tumors are carefully studied. In conclusion the diseases of special organs are taken up according to their relative importance. In the laboratory the student is required to identify about one hundred and fifty specimens, and with the aid of the instructor, work out departures from the normal. From the facts thus acquired a diagnosis is made. Descriptions of all sections and drawings of all typical specimens are required to familiarize the student with recording changes seen and to train him in accuracy of observation.

2. **Pathology**—Five hours lecture and quizzes. Ten hours laboratory. Six hours credit. Second semester, sophomore year.

Waite, Putnam

#### BOTANY

Head Professor Bessey, Assistant Professor Walker

Five laboratories—general, advanced, and physiological—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glassware and other supplies and apparatus.

1. **General Botany**—Introduction to structure of plants (cells, tissues,

tissue systems). General morphology and physiology of representative species. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Bessey, Walker

**2. General Botany**—The general morphology and physiology of representative species, including flowering plants. Continuation of course 1 and with it furnishing a basis for plant *materia medica*. Second semester.

Bessey, Walker

## CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Adjunct Professor Fossler, Doctor Cutter, Mr. Frankforter, Mr. Wilson, Miss Whaley

A general survey of chemistry, inorganic and organic, including the nature of chemical processes and the use of apparatus.

Instruction by the lecture-laboratory method.

Advanced students having the necessary experience and knowledge do research work under guidance.

**D. The Non-Metallic Elements**—This course is designed to give a general view of chemistry, including the general principles, and taken by students entering without a high-school course. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester.

Dales, Wilson, Whaley

**1. Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 entrance points. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Borrowman, Wilson, Whaley

**2. Qualitative Analysis**—1 continued. Introduction to quantitative analysis included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Borrowman, Wilson, Whaley

1 and 2 (combined course). **Qualitative Analysis.** Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Dales, Wilson, Whaley

**8. Volumetric Analysis**—A study of standard volumetric methods. One hour attendance. Ten hours laboratory. Four hours credit. First or second semester.

Frankforter

**3. Elementary Organic Chemistry**—The important classes of organic substances. Preparation in laboratory of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester, freshman year. Fossler

**25. Physical Chemistry**—Elementary course; the general principles of physical chemistry with applications to chemistry and to other sciences. Required in six-year course; elective in four-year course. May be taken with course 3. Two hours credit. First semester. Dales

**34. Physiological Chemistry**—The organic compounds and chemical processes of physiological importance, including a study of the chemistry of the urine. Useful in subsequent study of practical medicine. Prerequisite: Courses 1, 2 and 3. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. Second semester, freshman year. Cutter

**41. Toxicology**—Poisons: Chemical nature, antidotes and methods for detection. Must be preceded by courses 1, 2, 3, and 34. Two hours lecture, one hour quiz. Three hours laboratory. Two hours credit. First semester, sophomore year. Cutter

## HISTOLOGY AND EMBRYOLOGY

Professor Willard, Mr. Wells

**1. Vertebrate Embryology**—A brief survey of vertebrate development with special reference to morphogenesis and histogenesis of organs. The course is arranged to correlate as closely as possible with those in histology and gross anatomy. The chick and pig are used chiefly for laboratory study, with illustrative material from other groups. The dissection of the foetal membranes and their relation to the uterus form a part of the laboratory study. Two hours lecture. One hour quiz and eight hours laboratory work for eight weeks. Three or four hours credit. First half of first semester, freshman year. Willard, Wells

**1a. Microscopical Technique**—This may be elected for one hour credit in connection with other laboratory courses in the department. It includes some systematic instruction and practice in the special methods of preparing material for microscopical examination. The more rapid practical methods of handling tissues will be emphasized for those who desire a technique which may be used with little laboratory equipment. Not less than four hours of laboratory work with personal instruction. One hour credit. Either semester. Willard

**11. General Vertebrate Histology**—The finer structure of the vertebrate tissues with special reference to mammals and man. Tissue differentiation is logically presented by way of histogenesis and the functional significance of the structural changes emphasized. Two hours quiz. Eight hours laboratory for eight weeks. Two hours credit. Second half, first semester, freshman year.

Willard, Wells

**12. Histology of Organs**—The microscopical study of mammalian organs with reference to their tissue constituents and their ultimate relation to blood and lymph supply. The effort is made to bridge the gap between microscopical and gross anatomy by the handling and dissection of fresh mammalian organs in connection with section study. Human material is used where its preservation can be controlled and normal structure insured. Instruction and practice in histological technique is provided for in supplementary courses which may be taken at same time. Two hours quiz. Four hours laboratory work. Three hours credit. Second semester, freshman year.

Willard, Wells

**13. Advanced Histology and Embryology**—This is a course designed to give opportunity for a more comprehensive study of certain organs that cannot adequately be considered in the required courses. This applies particularly to the nervous and sense organs. Arranged for laboratory and quiz work. Equivalent to two or three hours credit. Elective. Prerequisite: Courses 1 and 2.

Willard

**15. Neurology**—The microscopical anatomy of the human brain, based upon a study of sections prepared to show principally fiber tracts and end nuclei. Two hours quiz. Four hours laboratory. Two hours credit. Second semester, sophomore year.

Willard

## HISTORY OF MEDICINE

Assistant Professor Orr

**1. History of Medicine and Medical Literature**—Lecture and study course dealing with men who have contributed to medical knowledge from the earliest times to the present. Development of medicine in its different branches as an abstract department of knowledge. Reading and note-taking. Special study of library methods and medical literature, medical cataloging and bibliography. Two hours lecture. One hour credit. Second semester.

Orr

**HYGIENE, SANITATION AND STATE MEDICINE**

Professor Towne

- 1. Sanitation and State Medicine**—Relation of medical profession to public health. Theoretical consideration. Results of practical experience. Quarantine regulations of Nebraska. Air, water, climate, soil, heating, ventilation. Municipal and private water supply. Milk, sewerage, disposal of waste. Public and private management of transmissible diseases. Epidemics, contagion, and disinfection. Two hours lecture. Second semester, junior year.

Towne

**CLINICAL PATHOLOGY**

Doctor Bliss, Doctor Manning

The course in general and special pathologic anatomy and histology is specially designed to apply to the principles of general pathology, to organic and systematic abnormal alterations, and to bring out the close relations of these alterations to clinical symptoms.

Instruction by the lecture-laboratory method, each exercise being a didactic quiz.

Each student is required to write a resume on some assigned subject and to present it before the class.

All students registered for Courses 1 and 2 are required to attend and assist at autopsies. Two students are assigned to each autopsy and are required to render a complete report of both gross and microscopic findings.

The work in Clinical Pathology covers examinations of blood, feces, urine, gastric contents, sputum, and other secretions and excretions from the chemical and microscopical standpoints. Especial attention is paid to the study of normal and pathologic blood, in fresh and stained conditions.

- 1. Pathologic Anatomy**—Lectures, demonstrations and quizzes in special pathology, post mortem technique and gross pathology. Two hours. First semester, junior year.

- 2. Pathologic Anatomy**—1 continued. Second semester.

- 3. Pathologic Anatomy**—Conferences on current problems of general and special pathology for half the class. Two hours. Second semester, junior year.

- 4. Clinical Diagnosis**—First semester, junior year, two hours lecture and demonstrations. Some work outside of regular hours is also required.

5. **Clinical Diagnosis**—Members of the senior class examine specimens, obtained from clinical cases, in the laboratory under the supervision of the professor in charge and report to the professor holding the clinic. First semester, senior year.

6. **Clinical Diagnosis**—5 continued. Second semester.

## PHARMACOLOGY

Professor Lyman, Adjunct Professor Stevens, Adjunct Professor Perusse, Doctor Rowe, Miss Day

1. **Pharmacy**—A laboratory course intended to familiarize the student with the fundamental processes in pharmacy, including the manufacturing, compounding, and dispensing of official preparations. Three hours quiz and laboratory. One hour credit. First semester, sophomore year.

Perusse, Day

2. **Pharmacodynamics**—An experimental study of the physiological action of the drugs of therapeutic value. Two hours quiz. Six hours laboratory. Five hours credit. Second semester. Lyman, Day

4. **Materia Medica**—A didactic and laboratory study of the origin, natural history, preparations, and methods of using individual drugs. The elements of prescription-writing and the use of the United States Pharmacopœia and the National Formulary are taught. Two hours attendance. Two hours laboratory. Two hours credit. Second semester.

Stevens, Rowe

## PHYSICS

Head Professor Skinner, Professor Moore, Mr. McComb, Mr. Spencer

The department of physics occupies a building erected especially for the department, conveniently arranged, with all needed facilities, and well supplied with apparatus.

These courses are designed for those desiring a knowledge of the principle of physics and of its relation to other sciences and to natural phenomena. It is open to students who have completed the Medical College entrance requirements in physics.

11. **Arts Course in General and Experimental Physics**—Mechanics, sound, and heat. For the nature of this course and conditions for admission, see above. Three hours lecture with illustrative experiments. Four hours laboratory. Three hours credit. First semester.

Skinner, McComb, Spencer

12. **Arts Course in General and Experimental Physics**—Electricity and light. Course 11 continued. Four hours laboratory. Three hours credit. Second semester. Skinner, Moore, Spencer

## PHYSIOLOGY

Professor Guenther, Doctor Welch, and Assistants

A consideration of facts and theories of vital phenomena, presented with special reference to their application in medicine.

12. **Advanced Physiology**—Combined lecture, demonstrations, and laboratory course. Four hours quiz. Eight hours laboratory. Six hours credit. Second semester, freshman year. Guenther

13. **Advanced Physiology**—12 continued. Three hours quiz. Three hours laboratory. Four hours credit. First semester, sophomore year.

Guenther

14. **Physical Diagnosis**—General principles of inspection, palpation, percussion and auscultation. Other physical methods used in the examination of abnormal conditions—determination of blood pressures, registration or arterial and jugular pulse, blood counts, the reactions of degeneration to electrical currents, etc. Physical signs in health and in disease with their clinical demonstration, learned by direct personal examination. One hour lecture and two hours recitation and laboratory. One hour credit. Second semester, sophomore year. Welch

## PSYCHOLOGY

Head Professor Wolfe

3. **Elementary Psychology**—A brief course in general psychology for students wishing a general knowledge of this field. Not open to first year students. Three hours attendance. Two hours laboratory. Three hours credit. Second semester. Wolfe

## THERAPEUTICS

Adjunct Professor Goetz, Doctor Jefferson

1. **Therapeutics**—Discussion of all drugs which under the test of modern investigation have been found useful in the treatment of disease. Application of the scientific data obtained through pharmacodynamics. Questions of treatment considered as matters of direct argument from

physiology and pathology rather than as mere memory work. Mechanical, physical and hygienic treatment discussed. Immunity and serum therapy. Personal quizzing; prescription writing. One hour lecture or quiz. First semester, junior year.

Jefferson

2. **Therapeutics**—1 continued. Second semester, junior year.

3. **Clinical Therapeutics**—Practical course. Necessity of definite plans of treatment based upon logical reasoning shown in the more prominent diseases. Embraces the direct application of all forms of therapeutic aid. Lectures, quizzes and clinics. In clinics special attention paid to analyzing cases for therapeutic indications. One hour a week at college, one hour a week at hospital. First semester, junior year.

Goetz

4. **Clinical Therapeutics**—5 continued. Second semester, junior year.

5. **Seminar in Therapeutics**—Arranged at opening of school year. Each student makes an investigation and reports upon some of the modern specialized forms of therapeutics, such as the Nauheim treatment, the Carlsbad treatment, the Finsen treatment. Careful investigation of the topic with discussion by the class and criticism by the instructor. Senior year. By appointment.

Goetz

## ZOOLOGY

Head Professor Wolcott, Professor Powers, Associate Professor Barker, Mr. Mitchell, and Assistants; Professor Willard

The laboratory has Zeiss and Leitz microscopes, Reinholt-Giltay, Minot and Thoma microtomes, Lillie and Naples paraffin baths, and all necessary subsidiary apparatus. The department library adjacent and freely accessible contains 2,000 works on animal morphology and physiology. A series of specimens from the Naples Zoological Station, one of injected tissues by Thiersch, and embryological models by Ziegler, Dahlgren, and others, is included in the illustrative material.

1. **General Zoology**—For beginners and those wishing a general insight into methods and principles of the science. The lectures cover the general principles of morphology, physiology, development, distribution, classification and evolution of animals; laboratory work, an intensive study of types drawn from the Protozoa and simpler invertebrates, together with subsidiary cytological and embryological material. Three hours attendance. Four hours laboratory. Three hours credit. By proportionate increase in laboratory and in assigned reading, five hours credit. First semester.

Powers, Mitchell

2. **General Zoology**—1 continued. Second semester.

A. **General Zoology**—For beginners and those who desire to complete a year's work in general zoology in one semester. This course covers the same field as courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester. Wolcott, Mitchell

6. **Comparative Vertebrate Anatomy**—A course providing a broad comparative basis for any subsequent work in embryology, microscopic or gross anatomy. In a knowledge of their evolution the student has an explanation for the distinctive structure of the organs of the human body. The adaptation of structure to function, the significance of rudimentary organs and the parallel between evolution and individual development are fully demonstrated in laboratory study. A cartilaginous fish, an amphibian and a mammal, together with prepared dissections from other forms, represent the material used. Anatomical technique is demonstrated to a certain extent in the methods of preservation, injection of blood vessels and the mounting of permanent dissections. A general course in zoology is a prerequisite. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester. Willard

7. **Comparative Osteology of the Vertebrates**—A study in morphology, with the skeleton as a basis. The lectures are general and comparative; the laboratory work involves a detailed study of the human skeleton. Two hours attendance. Four hours laboratory. Two hours credit. Should be preceded by Courses 1 and 2 or A. Wolcott

15. **Medical Zoology**—Lectures on morphology, taxonomy and economic relations of the groups Protozoa, Platyhelminthes, Nemathelminthes and Arthropoda and their role in the production and transmission of disease. The laboratory work comprises gross dissection and microscopic study and serves as an introduction to microscopic technique. Intended especially for the medical student. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Prerequisites: Courses 1 and 2.

17. **Animal Parasites**—Taxonomy, morphology, biology and economic relationships of animal parasites. Lectures, laboratory and field work. The handling of a simple assigned problem. Two hours attendance. Four to twelve hours laboratory. May be elected as a two- to five-hour course. First semester. Open to students who have had Zoology 1, 2, and 3, or their equivalent. Offered to medical students as an elective. Barker

18. **Animal Parasites**—Course 17 continued; but may be elected independently. Second semester. Barker

## CLINICAL INSTRUCTION

### INTERNAL MEDICINE

Professor Bridges, Professor Milroy, Doctor Truelson, Doctor Peterson, Doctor Goetz, Doctor Bliss. By invitation, Col. J. M. Banister, M. D., U. S. A.

**1. Physical Diagnosis**—General principles. Demonstration of topography of head, chest, and abdomen. Physical signs in health learned by direct personal examination. Lectures treat of normal conditions. Two hours lecture and recitation. First semester, junior year. Bliss

**2. Physical Diagnosis**—1 continued. Physical signs in disease, and their clinical demonstration on cases taken from dispensary and hospital wards. Second semester, junior year. Three hours. Bliss

**3. Internal Medicine**—General diseases, including infections and disease of stomach and intestines, lungs and kidneys. All diseases pertaining to internal medicine; regular recitations held thereon afford theoretical knowledge of the etiology, pathology, symptomatology, diagnosis, and treatment of disease. In clinic in College building the cases are selected from outdoor dispensary, and usually represent seasonable diseases of the ambulatory type. First semester, junior year. (a) One hour lecture. Bliss. (b) Four hours recitation. Peterson, Manning. (c) One hour clinic. Bliss. Two hours clinic, Douglas County Hospital or Wise Hospital. Milroy, Bliss, Goetz.

**4. Internal Medicine**—3 continued. Second semester.

**5. Internal Medicine**—Includes subjects not studied in junior year. Elucidation of cases seen in hospital clinics, and of cases in private practice, illustrative of the subjects under consideration. Two hours weekly in conference. Members of senior class in rotation are assigned cases for examination and study in the dispensary clinic or at one of the affiliated hospitals, and present a written report thereon before the class and professor. A full discussion of the case follows; etiology, pathology, symptoms, diagnosis, prognosis, and treatment are discussed. Two hours weekly at the Douglas County Hospital; two hours weekly at the Methodist Hospital. Careful direction here given to elaboration of clinical histories and to physical examination of chest and abdomen. Sputum, urine, and blood

of patients examined by sections of the class in the college laboratory under direction of professor of pathology and reports made thereon. First semester, senior year. (a) One hour lecture. Bliss. Two hours conference. Bridges and Milroy. (b) One hour clinic in the College. Bliss. (c) Five hours hospital clinics. Milroy, Bridges, Goetz.

**6. Internal Medicine**—5 continued. Second semester.

**9. Tropical Medicine**—Lectures on the distribution, etiology, diagnosis, and treatment of such tropical diseases as are of practical importance to American physicians in view of our increasing commercial intercourse with tropical countries by reason of our possessions in the West Indies, Panama Canal Zone, and in the Islands of the Pacific. The epidemiology and epidemiology of such diseases with the general and special sanitary measures adapted to the prevention, control, and suppression of the same. One hour lecture each week. Second semester, senior year. Banister

**11. Life Insurance Examinations**—The nature and growth of life insurance; elementary principles of life insurance; duties and responsibilities of examiners; influence of different diseases, heredity, occupation and habits on expectancy of life; proper technique in examining applicants for life insurance. First semester, senior year. Cloyd, Jones

## SURGERY

Professor Jonas, Professor Davis, Associate Professor Stokes, Doctor Hunt, Doctor Hull, Doctor Morison, Doctor Hollister, Doctor Kennedy.

**1. Principles of Surgery**—Principles of surgery; full description of the classification of tumors, their pathology, differentiation, relation to general diseases, manifestations, operative and non-operative methods of treatment. Subjects assigned for recitation covering lectures on principles of surgery, surgical pathology and tumors, the practice of surgery, surgical diseases, fractures and dislocations. At the College Dispensary cases are presented for diagnosis, operation and treatment. At this clinic a considerable number of minor surgical cases receive attention, minor operations often being performed. Clinics at Douglas County and Immanuel hospitals; operations for all manner of surgical diseases. Practical use of anesthetics, both local and general, considered at these clinics. First semester, junior year. (a) Two hours lecture. Davis. (b) Four hours recitation. Hull, Hollister and Kennedy. (c) Two hours dispensary clinic. One hour hospital clinic. Jonas and Davis, Hull, Morison and Hollister.

**2. Principles of Surgery**—1 continued. Second semester.

3. **Bandaging**—Uses and application of bandaging, plaster of Paris (including its preparation) and other surgical dressings. Practical work under the direction of the instructor. One hour weekly. Second semester, junior year.

Hollister

4. **Experimental Surgery**—Intended to familiarize student with principles of surgical technique and asepsis by actual operations performed on animals, and done with the same care as on the human body. Optional for juniors, second semester. Three hours clinic.

Stokes

5. **Practice of Surgery**--Covers part of ground gone over in recitations of junior year. References to observations in hospital clinics frequently recalled and elaborated to fix essential points in diagnosis and treatment. Subjects of hospital clinics brought up for conference in the class-room, when cases are more thoroughly discussed than the time allotted in operative work permits. Members of the class in rotation assigned cases of examination, or illustrative cases cited upon which they are required to make reports on diagnosis, pathology, and treatment. Reports critically discussed in conference. Two hours general clinic at the College Dispensary, principally on minor surgery, including examination, diagnosis, treatment and minor operations. Two hours at Nebraska Methodist Hospital in general and major surgery, at which cases illustrative of the lecture course in practical surgery are thoroughly demonstrated and at which there are regular operations on all regions of the body. Two hours at Immanuel, Wise Memorial, or Douglas County hospitals, also furnish opportunity for similar instruction. Members of the class required to assist at operations and administer anesthetics under direction as occasions arise. First semester, senior year. (a) One hour lecture. One hour conference. Jonas. (b) Six hours clinics. Jonas and Davis.

6. **Practice of Surgery**—5 continued. Second semester.

8. **Demonstrations**—Each member of the class individually instructed in performing surgical operations on the cadaver. He is required to master the details and steps of the more common operations necessary in practice, and is called on at times to perform ligations, amputations, excisions, celiotomies for various abdominal diseases, paracentesis, pleurotomy, rib resection and trephining. Second semester, senior year. Jonas, Morison

9. **Section Clinics**—Special clinics by appointment in all of the hospitals mentioned above. These clinics afford work in all branches of general and special surgery. First semester, senior year. Jonas, Davis, Stokes

10. **Section Clinics**—9 continued. Second semester.

12. **Oral Surgery**—Short course of lectures on the surgery of the mouth in its relation to diseases of the teeth and alveolar processes; care of teeth and influence of neglect of mouth in production of general and stomach disorders. Second semester, senior year.

Hunt

13. **Laboratory Course in Surgical Pathology**—Gross and microscopic specimens demonstrated from a diagnostic point of view.

Hollister, Kennedy

### ORTHOPEDIC SURGERY

1. **Orthopedic Surgery**—Various deformities; diagnosis, pathology and treatment. Joint diseases; their mechanical and other treatment. Practical study of the subjects of the lectures at surgical clinics in Omaha and Douglas County hospitals. Operative procedures and the study of progress in the cases treated. One hour lecture. First semester, senior year.

Jonas, Hull

2. **Orthopedic Surgery**—1 continued. Second semester.

### GENITO-URINARY SURGERY

A systematic course, including the use of the cystoscope and endoscope, is given on the diseases affecting the genito-urinary organs. In the dispensary clinic the practical application of these instruments, the use of sounds, and local treatment of the mucous membrane of the urethra and bladder are studied. Section clinics at the Douglas County Hospital offer opportunities for the study of venereal diseases, including syphilis in all stages. Operations upon the perineum, testicle, prostate and bladder are performed with the assistance of members of the sections.

1. **Genito-Urinary Surgery**—One hour lecture. One hour clinic. First semester, senior year.

Stokes

2. **Genito-Urinary Surgery**—1 continued. Second semester.

3. **Laboratory Demonstrations**—Practical demonstrations in laboratory on pathology of genito-urinary diseases.

Stokes or Assistant

### OBSTETRICS

Professor Somers, Adjunct Professor Pollard

In October 1911, after consultation with the various charitable organizations of Omaha, it was decided wise to establish a free Lying-In Dispensary in connection with the College of Medicine. The hospitals of the

city assisted by giving free beds to those entitled to charity. The results have surpassed the most sanguine expectations. In addition to supplying a great demand for charity work in a field that has been literally unexplored, there have developed clinical opportunities for teaching obstetrics as good as can be found in any of the larger cities. The material is sufficient to satisfy all present demands with the certainty of great increase as the years go by.

Each student is shown one or more cases during the last semester of the junior year, special opportunities being offered to students remaining in the city during the summer months. An obstetric clinic by appointment on Saturday afternoons and on other days out of lecture hours is in successful operation in connection with this department, at which students are taught antepartum diagnosis, physiological and pathological pregnancy, and shown cases of interest that may be under observation at the time. All material for four months of the year at the County Hospital is utilized for this purpose. Written reports of all clinical work are required and every student must have reported ten cases of confinement before coming up for graduation.

**1. Anatomy and Physiology of the Female Pelvic Organs**—Development of the ovum; hygiene and management of pregnancy, its signs, diagnosis and pathology. Subject of lectures assigned for study and recitation. Three hours recitation. First semester, junior year. Pollard

**2. The Theory and Practice of Obstetrics as Applied to Normal and Abnormal Labor**—Lectures illustrated by charts, diagrams and models. Three hours lecture. Second semester, junior year. Pollard

**3. Obstetrics**—Mechanism of labor, difficult labor, pathology of puerperal state, and the new-born child. Exercises on manikin in diagnosing position and presentation, including a review of mechanism of normal and abnormal labor. Two hours lecture. First semester, senior year. Somers

**4. Obstetric Surgery**—History and description of all obstetric operations, with a demonstration of all necessary instruments and their uses. Two hours lecture weekly. Second semester, senior year. Somers

**5. Attendance on Obstetrical Cases**—The various lying-in hospitals, including the Douglas County Hospital, afford abundant opportunity for the assignment of obstetric cases to members of senior class under direction. During such attendance he is excused from other college exercises. Under direction and in presence of the professor or one of his assistants, he makes examinations, both by abdominal and vaginal palpation, suggests

diagnosis, studies the progress of labor and in case operative procedure is necessary, witnesses and assists at operations. Practical use of anesthetics in labor. Second semester, junior year, and first semester, senior year.

Somers, Pollard

**7. Pathology**—Normal and morbid anatomy of placenta and pregnant and puerperal uterus. Practical demonstrations in the laboratory. First semester, junior year.

**8. Pathology**—7 continued. Second semester.

## GYNECOLOGY

Professor Findley, Doctor Hollister. Clinical Assistants: Doctor Fairchild, Doctor Lieber

The instruction in diseases of women consists largely of practical demonstrations. The lectures are illustrated by stereopticon views of pathological lesions and operative procedures, and in order that the student may be thoroughly grounded in the essentials of diagnosis the lectures and clinics are supplemented by a laboratory course in gynecological diagnosis where gross and microscopic specimens of the various lesions of the female genitalia are demonstrated. The dispensary clinic, held daily in the College building, is regarded as a most important part of the clinical teaching. It is in these clinics that the student is trained in clinical diagnosis and where he may best be instructed in principles of treatment. One college clinic each week is held in the Clarkson Memorial or Douglas County hospitals throughout both semesters where cases are presented for diagnosis and treatment.

Opportunity is afforded for making bimanual examinations under anesthesia in the clinics.

**1. Gynecology**—Subject covered by didactic lectures and oral and written quizzes two days weekly. Supplemented by epidiascope illustrations, demonstrations of instruments, casts and pathological specimens. One clinic each week at Clarkson Memorial Hospital, where cases are presented for diagnosis and operation. A special feature of the clinic is the opportunity given each student to make examinations under anesthesia. One hour each day devoted to clinics in the dispensary, where small groups of students are permitted to examine patients, to write histories, and to apply local treatments. First semester, senior year. (a) Lectures. Findley. (b) Demonstrations. Findley. (c) Hospital clinic. Findley, Hollister. (d) Dispensary clinics. Hollister, Fairchild, Lieber.

**2. Gynecology**—1 continued. Second semester.

**3. Gynecological Diagnosis**—A laboratory course, in which the gross and microscopic pathology of gynecological lesions are studied. These demonstrations, together with the lectures and clinics, are intended to supplement amphitheater discussions of pathology. Special stress is laid upon microscopic diagnosis of uterine scrapings and excised pieces. Opportunity is afforded students to do special laboratory work on fresh material from the clinics. First semester, senior year. Findley, Hollister

**4. Gynecological Diagnosis**—3 continued. Second semester.**OPHTHALMOLOGY AND OTOLOGY**

Professor Gifford, Doctor Lemere, Doctor Patton, Doctor Potts

**3. Otology**—Anatomy and physiology of the ear. Use of otoscope; practical study of normal drum membranes; application and theory of acoustic tests. Ten lectures. First semester, senior year. Lemere

**5. Ophthalmology**—Anatomy and physiology of the eye. Use of the ophthalmoscope; practical study of normal fungus; theory of refraction and retinoscopy. Ten lectures. First semester, senior year. Patton

**1. Ophthalmology and Otology**—External and internal diseases of the eye and ear and their differential diagnosis. The clinics furnish abundant cases illustrative of the lectures on eye and ear. First semester, senior year. (a) Lecture and hospital clinic. One hour weekly. Professor Gifford. (b) Section clinics. Lemere, Patton

**2. Ophthalmology and Otology**—4 continued. Second semester.

**4. Refraction and Retinoscopy**—Practical work at trial cases in dark room. To meet state board requirements. Second semester, senior year. Patton

**6. Dispensary Clinic**—In college dark room. Two hours weekly. Senior year. Patton, Potts

**LARYNGOLOGY AND RHINOLOGY**

Professor Owen, Doctor Wherry, Doctor Rubendall

**1. Laryngology and Rhinology**—Diseases of the nose, throat and larynx; their dependence upon and relation to various constitutional infections and dyserasiae. One hour lecture. First semester, senior year. Owen

**2. Laryngology and Rhinology**—1 continued. Second semester, senior year.

**3. Principles and Use of the Laryngoscope and Rhinoscope**—Anatomy and physiology of the upper respiratory tract. A study of normal appearances of nose, throat and larynx. Dark room with artificial light provided in the College Dispensary. One hour weekly. First semester, senior year.

Wherry

**4. Clinic**—The dispensary clinic furnishes material for study of diseases of the nose, throat and larynx. Having familiarized themselves with the normal appearance and the use of the instruments during the first semester students are prepared for practical instruction in pathology, diagnosis, and treatment of diseased organs. Section clinics and operations in the Wise Memorial and Immanuel hospitals. One hour weekly. Second semester, senior year.

Owen, Rubendall

## DERMATOLOGY AND GENITO-URINARY DISEASES

Professor Schalek, Doctor Klick

The course includes conferences throughout the year in which cases are demonstrated and discussed. Weekly recitations serve to prepare a thorough foundation for the subject. At the College Dispensary students become familiar with the more common cutaneous diseases. The latest advances in syphilology are presented. The students are made acquainted with the radio-therapy, the carbonic acid snow treatment, and other therapeutic measures. During the second semester a regular weekly clinic is given at the County Hospital which affords abundant dermatological material. From time to time the students are taken to other hospitals to see patients at the bedside. A fine collection of plates and photographs illustrating various diseases of the skin are available for demonstrations.

**1. Dermatology**—Demonstrations at the Methodist, Immanuel, and Clarkson hospitals. First and second semesters, senior year. Schalek

**2. Dermatology and Genito-Urinary Diseases**—Clinic at the County Hospital one hour weekly. Demonstration of cases and treatment, with lectures. Second semester, senior year. Schalek

**3. Dermatology**—Quizzes with demonstrations of plates and patients. One hour weekly. First and second semesters, senior year. Klick

## PEDIATRICS

Professor McClanahan, Doctor Christie

**1. Pediatrics**—Gastro-intestinal diseases, contagious diseases, diseases of nutrition, and important part played by errors of diet in their production. Milk modification in all its methods, including the working out of percentages. The history and technique of intubation. Clinics at College Dispensary where many cases of ordinary affections of infancy and childhood appear furnish practical applications. One hour lecture. One hour clinic. First semester, senior year.

McClanahan, Christie

**2. Pediatrics**—1 continued. Second semester.

**3. Care of Children**—Instruction in the care, hygiene and feeding of infants, cranial measurements, and physical development. One hour lecture and quiz. First semester, junior year.

Christie

**5. Section Clinics in Pediatrics**—Clinics at the Child-Saving Institute and Methodist Hospital where it is frequently possible to demonstrate practically the contagions, measles, scarlet fever, and whooping cough, as they occur in epidemic form. Second semester, senior year.

McClanahan, Christie

**6. Section Clinics in Pediatrics**—4 continued. Second semester.

## NERVOUS AND MENTAL DISEASES

Professor Aikin, Doctor Mogridge, Doctor Young

**1. Lectures on Diseases of the Nervous System**—Lectures on the causes of nervous diseases, and the general symptoms. Diagnosis and methods of examination. Diseases of the peripheral nerves. Motor neuroses of spinal nerves. Sensory neuroses of cerebro-spinal nerves. Diseases of the spinal cord. Degenerative diseases. Muscular atrophies. Diseases of the brain. Function neuroses. Insomnia and neurological therapeutics. One hour lecture. First semester, senior year.

Aikin, Young

**2. Lectures on Diseases of the Mind**—Definitions, classification, general etiology, general pathology. General psychology. General symptoms and symptom groups. Examination and diagnosis. Functional psychoses, organic psychoses.

All lectures will be illustrated by clinical cases at the Methodist, Immanuel, and Douglas County hospitals. At the Douglas County hos-

pital students are assigned cases for examination, diagnosis and treatment and are required to report their cases before the entire class.

One hour lecture. Second semester, senior year. Aikin, Young

**3. Lectures on Arrested Development**—This course considers the cause, manifestations and diagnosis of arrested development. Six lectures, one hour each, and one day spent at the Glenwood, Iowa, Institute for the Feeble Minded. Second semester, senior year. Mogridge

### MEDICAL JURISPRUDENCE

Mr. Page

**1. Medical Jurisprudence**—Physicians' contracts, general medico-legal relations. Expert testimony. Malpractice. Life insurance examinations. Injuries and deaths. Poison, identity, and survivorship. Sexual relations. Quarantine sanitation. Medical legislation. Twelve lectures. Second semester, senior year.

Page

**Time Schedule**  
(Clinics in Italics)

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Goetz <i>Medicine Clinic</i> Wise Hospital After Nov 1st	Hollister (b) <i>Minor Surgery Clinic</i> County Hospital	Bliss Pathology Conference		Bliss, Manning Pathology	<i>Inmanuel Hospital</i>
9			Manning Principles of Medicine	Jefferson Therapeutics		Davis Surgery Clinic 9 to 12
10	Christie (a) Pediatrics	Bliss (b) <i>Medicine Clinic</i> County Hospital	Jefferson Therapeutics	Manning Medicine Recitation	Hollister Surgery Recitation	
11	Pollard Obstetrics		Pollard Obstetrics	Hollister Surgery Recitation	Pollard Obstetrics	
1		McClanahan <i>Dispensary Pediatrics</i>		Dispensary and Drug Room work	Dispensary and Drug Room work	Bliss <i>Dispensary Medicine</i>
2	Stokes (a) <i>Surgical Anatomy</i> Towne (b) Sanitation— State Medicine	Davis Principles of Surgery	Peterson Medicine Recitation	Davis Principles of Surgery	Peterson Medicine Recitation	
3		Stokes (a) Surg. Anatomy Towne (b) Sanitation— State Medicine	Hull Surgery Recitation	Hull Surgery Recitation		Stokes (b) Experimental Surgery (elective)
4						

(a) First Semester. (b) Second Semester.

THE COLLEGE OF MEDICINE

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**SENIOR YEAR**  
(Clinics in Italics)

**Time Schedule—Cont'd**

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Klick Dermatology Recitation	Patton (a) Lemere Ophthalmology and Otolaryngology	Jonas Surgical Clinic Methodist Hospital	Goetz Wise Hospital		
9	Owen Laryngology and Rhinology	Wherry (a) Laryngology and Rhinology Morison (b) Surgery 8 to 10		Findley Gynecology	Findley Gynecology and Conference Clarkson Hospital	Milroy County Hospital Conference and Medicine Clinic
10		Kennedy Surgery	Bridges Conference and Medical Clinic Methodist Hospital		Stokes G. U. and Rectal Surgery College (a) County Hospital After Jan. 1st	Alkin (b) Nervous Diseases Clinic 8.30 to 12
11	Jonas Surg. Conference	Hollister (a) Fractures and Dislocations Page (b) Med. Jurisprudence		Aikin Nervous and Men- tal Diseases Hospital 12 to 1	Schalek, Klick Dispensary Dermatology	
1	Stokes Dispensary Surgery	McClanahan Moore Dispensary Pediatrics		Gifford Bliss Medicine	Alkin, Moore, Morganridge Nervous and Men- tal Diseases	Bliss Dispensary Medicine
2	Somers Obstetrics			Hull Orthopedic Surg.	Banister (a) Tropical Medicine Cloyd (b) (c) Life Insurance	Somers Obstetrics
3	Goetz Therapeutics			Christie (b) Pediatrics Child Saving Inst.	Hunt (b) (c) Dental Surgery	Somers Clinics by Appointment
4					McClanahan Pediatrics	

(a) First Semester. (b) Second Semester. (c) 8 hours. Laboratory open Monday, Tuesday, Thursday and Friday, 8 to 10 a.m.



# **The School of Pharmacy**

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

ROBERT HENRY WOLCOTT, A. M., M. D., Dean of the College of Medicine. Administration Hall 104.

RUFUS ASHLEY LYMAN, A. M., M. D., Director of the School of Pharmacy and Professor of Pharmacology. Nebraska Hall 7.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University. Nebraska Hall 104.

WILLIAM GRANGER HASTINGS, A. B., Lecturer in Pharmaceutical Jurisprudence and Dean of the College of Law. University Hall 310.

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology. Nebraska Hall 302.

BENTON DALES, Ph. D., Professor of Chemistry. Chemical Laboratory.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology. Nebraska Hall 5.

MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry. Chemical Laboratory.

GEORGE BORROWMAN, A. M., Assistant Professor of Chemistry, Chemical Laboratory.

LEVA BELLE WALKER, A. M., Adjunct Professor in Plant Pathology. Nebraska Hall 105.

FRANCIS JOSEPH PERUSSE, Ph. C., Adjunct Professor in Pharmacy.

JOHN JACOB PUTNAM, A. M., Adjunct Professor in Bacteriology and Pathology.

NIELS PETER HANSEN, Lecturer in Commercial Pharmacy.

CLARENCE JACKSON FRANKFORTER, A. M., Instructor in Chemistry. Chemical Laboratory.

IRVING SAMUEL CUTTER, B. Sc., M. D., Instructor in Chemistry.

ELSIE DAY, A. B., Ph. G., Instructor in Pharmacognosy. Nebraska Hall 7.

ERVIN FILLMORE WILSON, B. Sc., Instructor in Chemistry. Chemical Laboratory.

FANNIE ALICE WHALEY, Assistant Instructor in Chemistry. Chemical Laboratory.

## ORGANIZATION

The recent awakening in professional circles concerning the manufacture, dispensing and sale of drugs, poisons, and synthetics, together with the passage of the Food and Drugs Act, has placed upon pharmacy and pharmaceutical chemistry, and allied subjects, an importance never before enjoyed. The demand for skilled pharmacists was never so great as at the present time. The training as well as the general and technical knowledge demanded of applicants for positions by pharmacists, manufacturers, and the government is rapidly increasing. Thus while positions and opportunities in pharmaceutical work are on the increase, thorough and scientific training in the fundamental subjects has become imperative.

In view of these facts, the University, in the spring of 1908, organized the School of Pharmacy. The purpose of the school is to give the best possible general and technical training in order that students may become responsible dispensers, pharmaceutical manufacturers, food and drug inspectors, and analysts. Further, the University desires to cooperate with the professional men of the state in their efforts to improve and maintain professional standards in the interest of public health.

## GROUPS AND DEGREES

Three groups of studies are offered, as follows:

1. **A Two-year Group**, leading to the degree of Graduate in Pharmacy (Ph. G.), which prepares directly for drug store and dispensing practice and provides the ground work in analytical chemistry necessary for the drug business and the various phases of pharmaceutical manufacturing.

2. **A Three-year Group**, leading to the degree of Pharmaceutical Chemist (Ph. C.), giving the student a broader foundation and preparing him for a wider field of action. Its graduates are prepared to do analytical work for physicians or the public, to enter either the analytical or biological laboratories of the large manufacturing concerns, and to fill the government positions made necessary by the passage of the Food and Drugs Act.

3. **A Four-year Group**, academic and professional, leading to the bachelor's degree (B. Sc. in Pharmacy). This course includes all the technical work of the course of two years with the privilege of election from the three-year course. Students completing this course are prepared to do graduate work, and if they so desire, may seek the degrees of the Graduate College.

## REQUIREMENTS FOR ADMISSION

Applicants for admission present themselves to the Registrar, who furnishes them with application blanks and directions for proceeding with their examinations, if any, with registration and fee payments. Students may enter at the beginning of either semester, but for many reasons the first semester is preferable. Women are admitted on the same terms as men.

**Entrance from Accredited Schools.** A graduate of an accredited school, academy or high school, on presenting a certificate, is admitted without examination to any classes for which he is fully prepared. Any candidate for admission having credentials from a high school, college, or university not included in the list of schools accredited to this University must, in making application, forward his credentials to the Registrar and be prepared to take such examinations as are prescribed. A student desiring to ascertain whether or not he can be admitted to the first year should apply to the Registrar for blank credentials slips. When these are properly filled out and returned, he will be informed at once whether his credentials are or are not acceptable.

**Admission to Two-year and Three-year Groups.** For admission to the two-year and the three-year courses, the applicant must present the equivalent of a two-year (16-point) high school course. The following subjects approved by the State Commission on Course of Study for High Schools are recommended for this two-year high school course. The figures here given denote the number of recitations a week.

### GRADE NINE

Algebra .....	5	Algebra .....	5
English and Bookkeeping.....	5	English .....	5
Phys. Geography or Agriculture..	5	Agriculture or Civics.....	5
Latin .....	5	Latin .....	5

### GRADE TEN

Plane Geometry.....	5	Plane Geometry.....	5
History of Greece.....	5	History of Rome.....	5
Botany, 2; English, 3.....	5	Botany, 3 English, 2.....	5
Cæsar and Latin Composition...	5	Cæsar and Latin Composition...	5

Students slightly deficient in entrance requirements are permitted to make up these deficiencies during the first year of residence. Applicants who have had a four-year high school training are especially advised to register for the three-year course. Notice is given that the entrance requirements for both the two-year and three-year courses will be advanced in the near future.

**Admission to Four-year Group.** The requirements for admission to the four-year course are the same as those for admission to the six-year course in the College of Medicine, and are as follows: The candidate must present entrance "credits" equal to 30 "points," that is, a total of 150 recitation or "credit" hours. Conditional admission is permitted on a minimum of 28 "points," that is, 140 hours.

A "credit point" means the work of five recitations a week, of not less than forty minutes each, for at least eighteen weeks. In laboratory courses a "credit point" means three recitations a week, plus two double periods of laboratory work under the supervision of an instructor.

The requirements in detail are given below. The time element indicated with each subject is essential:

Subjects	Required Points, 17	Elective Points, 13
1. English .....	4	1 or 2
2. History:		
American .....		1 or 2
European .....	2	1 or 2
3. Language (ancient, modern) .....	6	2 to 8
4. Mathematics:		
Algebra .....	3	
Geometry .....	2	1
Trigonometry .....		1
Science:		
Agriculture .....		1
Botany .....		1 or 2
Chemistry .....		1 or 2
Physics (with laboratory, 2).....		1 or 2
Physical Geography .....		1
Zoology .....		1 or 2
Other subjects taught in an approved manner in an accredited secondary school (one each).....		6
1. English: A few of the strongest accredited high schools may, by special action of the Committee on Accredited Schools, be granted two additional elective points, in each of these groups.		
2. History: Four of the six points required must be in Latin.		
3. Language: Two points in Chemistry should be offered though not required; also, two points in Physics.		

**Admission of Special Students.** Students, not candidates for degrees, may register in the School of Pharmacy without conforming to the entrance requirements. The admission of special students is permitted after consultation with and upon the recommendation of the Director. Such students must pay the matriculation fee, the laboratory fees of the courses for which they register, and a pro rata tuition fee; provided, however, that the tuition charge shall in no case be less than five (\$5) dollars a semester.

**Registration.** Students are required to register promptly at the beginning of each semester. To promote prompt registration a fee of \$3 is charged any student who, unless excused by the Chancellor, fails to register within the days set aside for this purpose. A like fee of \$3 is charged for re-registration if made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. No regular student is registered for less than twelve (12) hours or more than eighteen (18) hours a semester. Students cannot attend classes for which they are not registered, and credit is not granted for studies pursued without registration. No student is allowed to change from one college to another without permission of the Registrar signed by the dean of each college concerned. A student so changing college must also pay a new matriculation fee of \$5. No student may change his group or drop any study for which he has been regularly registered without written permission from the Director of the school. Any change in a student's residence must be immediately reported to the Registrar.

**Absence or Withdrawal.** A leave of absence for a short time may be granted a student by the Director of the school. This leave is merely a justification for absence and not an excuse from any work. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of the semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

**Advanced Standing** may be granted as follows to applicants presenting proper credentials: (1) Applicants for credit in any particular subject are referred to the head of the department in question for examination. In case subject credit is granted the student is free to use the time thus gained in such extra work as he may elect. (2) Students of pharmaceutical colleges or schools of equal standing are, upon presenting certificate of honorable dismissal, admitted to the class to which credentials issued by

such colleges or schools entitle them. Applicants for advanced standing must offer admission credits equal to those required by this school.

### REQUIREMENTS FOR GRADUATION

The requirements for the various degrees given by this school are as follows:

1. The moral character of the candidate must be unquestioned.
2. He must have complied with all the requirements of admission and have paid all his fees.
3. He must have completed all required courses and have passed satisfactory examination on all required subjects in the curriculum.
4. His last year's work must be taken in this institution.

Experience in the business of pharmacy is not made a requirement for a degree.

### EQUIPMENT

**The laboratories** of the University are well equipped with all the essential apparatus for giving the most thorough instruction. A more or less detailed description of the equipment is given under the description of courses by the various departments.

**Libraries.** The following libraries, aggregating 236,000 volumes, are accessible to students in Lincoln: The University Library of 100,000 volumes is strong in those scientific lines wherein lies the work of the student of pharmacy. It includes special departmental libraries in botany, chemistry, hygiene, physiology, zoology, bacteriology, pathology, and medicine. The Lincoln City Library, of 31,000 volumes, also has an alcove devoted exclusively to medical and pharmaceutical literature. The State Library of 70,000 volumes at the Capitol includes valuable pharmaceutical works in certain lines. The Nebraska State Historical Society Library of 35,000 volumes contains useful series of public documents such as reports of state boards of health and of state hospitals, pharmaceutical associations, and other institutions.

### THE PHARMACEUTICAL SOCIETY

The Pharmaceutical Society is an undergraduate organization, the object of which is to bring the students into contact with the leading professional men of the state and elsewhere, and to promote the athletic and social life of the students. Membership in it is open to all students in the School of Pharmacy.

## GENERAL UNIVERSITY PRIVILEGES

Students in the School of Pharmacy have the privileges of other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of physical exercise adapted to his case. For engaging in athletics there is abundant opportunity. Military drill is also offered.

The Summer Session of the University affords opportunities to make up deficiencies in entrance requirements and in certain lines of laboratory work.

## FEES AND EXPENSES

**Fees.** All fees and charges are payable in advance to the Secretary of the University. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. The matriculation fee, being a statutory one, cannot be refunded except where collected through error. The schedule of fees in the School of Pharmacy is as follows:

Matriculation fee .....	\$5.00
Diploma fee .....	5.00

No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.

### TUITION FEES

Tuition, first semester .....	\$20.00
Tuition, second semester .....	15.00
For special examination, one subject.....	1.00

No tuition will be charged at present for the third year of the three-year course, the student paying only the laboratory and incidental fees for that year. Students taking the four-year course will pay tuition for only the third and fourth years, when they take the technical work.

### LABORATORY FEES

#### Bacteriology

Course 1 .....	\$8.00
Courses 2A, 3, 4 .....	4.00

#### Botany

Courses 1, 2 .....	2.00
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## Chemistry                    LABORATORY FEES—(CONCLUDED)

Courses D, 1 and 2 combined, 3 .....	\$10.00
Course 14 .....	8.00
Courses A, B, 1, 2, 21, 22, 34.....	5.00
Courses 7, 8, 39, 40 (per credit hour).....	1.00
Courses 15, 16, 41 .....	2.00

## Pharmacy

Courses 21, 22, 23, 24.....	7.00
Course 25 .....	3.00
Course 26 .....	2.00
Course 28 .....	6.00
Course 29 .....	8.00
Courses 31, 32, 33, 34.....	5.00

## Physiology

Courses 1, 2 .....	5.00
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**Expenses.** In Lincoln, board and lodging may be secured in private families for from \$3 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and the Young Women's Christian Association of the University keep a list of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

## GROUPS OF STUDIES

**Two-year Group,** leading to the degree of Graduate in Pharmacy (Ph. G.).

	FIRST YEAR	1st Semester		2d Semester	
		Hours		Hours	
Botany 1, 2 .....		3		3	
Chemistry D .....			4		
Chemistry 1, 2 (combined course).....					4
Pharmacy 21, 22 .....		5		5	
Physiology 1, 2 .....		2		2	
		—		—	
	SECOND YEAR	14		14	
Bacteriology 2A .....					2
Chemistry 3, 7 .....		5		3	

	1st Semester Hours	2d Semester Hours
Pharmacy 23, 24 .....	3	3
Pharmacy (Pharmacognosy) 25, 26.....	3	2
Pharmacy (Pharmacology and Therapeutics) 29.....	4	
Pharmacy (Prescriptions and Dispensing) 28.....		4
Pharmacy (Commercial) 30 .....		1
Pharmaceutical Jurisprudence 1 .....		
	<hr/>	<hr/>
	15	15

**Three-year Group**, leading to the degree of Pharmaceutical Chemist (Ph. C.). The studies for the first two years are the same as in the preceding course. The work of the third year is elective. The student may select work to the extent of 18 hours each semester from the advanced courses enumerated under the courses of instruction. This selection, however, must be made after consultation with the Director and the members of the faculty concerned.

**Four-year Group,\*** leading to the degree of Bachelor of Science in Pharmacy (B. Sc. in Pharmacy). Details in regard to the non-technical courses which appear in this schedule, such as rhetoric, should be secured from the announcement of the undergraduate colleges.

FIRST YEAR	1st Semester Hours	2d Semester Hours
Chemistry 1, 2 .....	2	2
Botany 1, 2 .....	3	3
Modern Language (German) .....	5	5
Rhetoric 1, 2 .....	2	2
Zoology 1, 2 .....	3	3
† Military Drill (men) .....	1	1
	<hr/>	<hr/>
SECOND YEAR	16	16
Chemistry 3 .....	5	
Chemistry 7, 8 .....	5	5
Modern Language .....	5	5
Physiology 1, 2 .....	2	2
Military Drill (men) .....	1	1
	<hr/>	<hr/>
	18	13

\* Registration in the College of Arts and Sciences is necessary to enter this group.

† Four semesters of physical training, each giving one hour credit, are required of women.

	THIRD YEAR	1st Semester Hours	2d Semester Hours
Bacteriology 1	.....	4	
Pharmacy 21, 22	.....	5	5
Chemistry (Advanced Analytical) 40	.....		5
Chemistry (Physiological) 34	.....		4
Pharmacy (Pharmacognosy) 25, 26	.....	3	2
Pharmacy (Pharmacology and Therapeutics) 29	.....	4	
Pharmacy (Commercial) 30	.....		1
Pharmaceutical Jurisprudence 1	.....		
		— 16	— 17
FOURTH YEAR			
Pharmacy 23, 24	.....	3	3
Pharmacy (Manufacturing) 31, 32	.....	3	3
Chemistry (Toxicology) 41	.....	2	
Chemistry (Food) 14	.....		5
Pharmacy (Prescription and Dispensing) 28	.....		4
Pharmacy, (Assaying, Pharmaceutical or Pharmacological)			
33	.....	6	
		— 14	— 15

## COURSES OF INSTRUCTION

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### BACTERIOLOGY AND PATHOLOGY

Professor Waite, Adjunct Professor Putnam

**1. General Bacteriology**—The form, structure, manner of multiplication, reproduction, requirements of growth and chemical products of bacteria. The relation of bacteria to fermentation and putrefaction and the means by which complex organic compounds are reduced to simple inorganic forms are fully explained. Disinfection, sterilization, and the theories of immunity. Several non-pathogenic and pathogenic forms are studied. Four hours attendance. Eight hours laboratory. Four hours credit. First semester.

Waite

**2a. Elementary Bacteriology**—An introduction to the study of bacteriology. The relation of bacteria to other organisms. Their morphology and structure, chemical composition, and chemical changes which they produce. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Waite, Putnam

**3. Dairy Bacteriology**—The source of bacteria in milk. Lactic and butyric acid fermentations, peptonizing, rennet-forming, and butyric acid-producing bacteria are discussed and some of the typical organisms isolated. Abnormal fermentations giving rise to slimy, bitte, red, blue, yellow and green milk are elucidated. The relation of milk to the spread of tuberculosis, typhoid fever and other diseases. Sterilization and pasteurization. Bacteria in butter-making. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Waite

**4. Agricultural Bacteriology**—The nitrogen problem. The role of bacteria in ammoniacal fermentation, nitrification, and denitrification. The use of bacteria as a means of reclaiming nitrogen lost from the soil. The practical employment of nitrifying bacteria and the employment of pure cultures in growing leguminous plants. Two hours attendance. Four hours laboratory. Two hours credit. Secnd semester.

Waite

### BOTANY

Head Professor Bessey, Adjunct Professor Walker

**1. General Botany**—Introduction to the structure of plants, cells, tissues, tissue systems, including blue-green and green algae and general morphology and physiology of representative species. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Bessey, Walker

**2. General Botany**—The general morphology and physiology of representative species of brown algae to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Bessey, Walker

### CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Adjunct Professor Fossler.

Mr. Frankforter, Mr. Wilson, Doctor Cutter, Miss Whaley

#### REQUIRED.

**\* D. The Non-Metallic Elements**—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester.

Dales, Wilson, Whaley

\* 1 and 2 combined. **Qualitative Analysis**—A study of qualitative reactions and separations, including the identification of common drugs and chemicals and the testing for impurities. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Dales, Wilson, Whaley

**. 3. Organic Chemistry**—The important classes of organic substances. Preparation of typical compounds. Pre-requisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester.

Fossler

**7. Quantitative Analysis**—Gravimetric determinations of the more important bases and acids, including the assay of drugs. Prerequisite: Courses 1 and 2. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. Second semester.

Frankforter

#### OPTIONAL

**A. General Chemistry**—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Dales, Wilson, Whaley

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\* Students desiring to study chemistry who enter the University with two points credit should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise, to register for D.

**B. General Chemistry**—Continuation of A. Especial attention is given to the metallic elements, the more common organic compounds, and the applications of chemistry to every-day life. Prerequisite: Course A. Three hours lecture. Four hours laboratory. Three hours credit. Second semester.

Dales, Wilson, Whaley

**8. Quantitative Analysis**—7 continued. Volumetric analysis, electrolytic analysis, the sanitary analysis of water and the analysis of gases. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. Second semester.

Frankforter

**21. Assaying**—Qualitative examination of ores. Blow-pipe and chemical tests for the common ores and minerals. Principles of fire assays for gold, silver, and lead in ores and metallurgical products. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First semester.

Borrowman

**22. Assaying**—21 continued. Volumetric and gravimetric methods for the determination of silver, copper, zinc, lead, tin, and iron. Two hours lecture. Four hours laboratory. Two hours credit. Second semester.

Borrowman

**39. Advanced Analytical Chemistry**—A more extended study of chemical analysis than that offered in courses 7 and 8. Laboratory practice leading to analytical research. Six to fifteen hours laboratory. Two to five hours credit. First semester.

Dales

**40. Advanced Analytical Chemistry**—39 continued. Second semester.

**41. Toxicology**—Poison; chemical nature, antidotes and methods for detection. Prerequisite: Courses 1, 2, 3, and 34. Two hours lecture, one hour quiz. Three hours laboratory. Two hours credit. First semester.

Cutter

**15. Organic Chemistry**—For students who desire a more extended knowledge of organic chemistry than that offered in course 3, or who wish to specialize. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Fossler

**16. Special Chapters in Organic Chemistry**—15 continued. Second semester.

**34. Physiological Chemistry**—The organic compounds and chemical processes of physiological importance, including a study of the chemistry of the urine. Useful in subsequent study of practical medicine. Prerequisite: Courses 1, 2 and 3. Four hours lecture. Eight hours laboratory. Four hours credit. Second semester.

Cutter

**14. Food and Sanitary Chemistry**—Chemical processes of nutrition; valuation of foods, preservatives, cleansing agents, etc., with a practical laboratory course in food and water analysis, including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2 and 3. Five hours lecture. Twelve hours laboratory. Five hours credit. Second semester.

Fossler

### PHARMACEUTICAL JURISPRUDENCE

Professor Hastings

**1. Pharmaceutical Jurisprudence**—A series of six lectures concerning the legal status of the pharmacist. Second semester.

### PHARMACY

Professor Lyman, Adjunct Professor Perusse, Mr. Hansen, Miss Day.

**21. Pharmacy**—An introductory course beginning with the history of pharmacy and followed by a study of weights, measures, specific gravity, vaporization, dessication, distillation, sublimation, comminution, separation of fluids from solids, filtration, clarification and decoloration, precipitation, crystallization, separation of immiscible liquids, granulation, and exsiccation, dialysis, extraction, expression, percolation, etc., and all elementary processes used in the preparation of medicines. Five hours attendance. Four hours laboratory. Five hours credit. First semester.

Perusse

**22. Galenical Preparations**—A study of the pharmacopoeial preparations of waters, syrups, emulsions, glycerites, spirits, elixirs, ethereal solutions, liniments, oleates, infusions, decoctions, tinctures, fluid extracts, solid extracts, etc. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester.

Perusse

**23. Official Inorganic Pharmacy**—A study of the inorganic official preparations, the inorganic acids, halogen compounds, alkalies, potassium, sodium, and lithium salts, ammonium, calcium, zinc, iron, lead, copper, silver, mercury, etc. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Perusse

**24. Official Organic Pharmacy**—A study of the official organic preparations, including oils, resins, fats, soaps, glucosides, alkaloids, and products of animal tissues. Three hours attendance. Four hours laboratory. Three hours credit. Second semester.

Perusse

**25. Pharmacognosy**—A study of the history, classification, constitution and the means of identification of the drug-producing plants. Three hours attendance. Four hours laboratory. Three hours credit. First semester.

Day

26. **Pharmacognosy**—25 continued. Two hours attendance. Two hours laboratory. Two hours credit. Second semester. Day
28. **Prescriptions and Dispensing**—A detailed study of the prescription and the art of dispensing and compounding. Four hours attendance. Three hours laboratory. Four hours credit. Second semester. Perusse
29. **Pharmacology and Therapeutics**—A study of the dosage and physiological action of official and non-official drugs and poisons. An experimental study of a typical member of each group of drugs will be made. Special attention is given to the anesthetics, narcotics, glucosides, alkaloids, and the physiological assay of drugs. Four hours attendance. Four hours laboratory. Four hours credit. First semester. Lyman, Day
30. **Commercial Pharmacy**—A series of lectures and demonstrations on the commercial aspect of pharmacy. One hour attendance. One hour credit. Second semester. Hansen
31. **Manufacturing Pharmacy**—Advanced work in pharmaceutical manufacturing. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Day
32. **Manufacturing Pharmacy**—31 continued. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Day
33. **Assaying**—Pharmaceutical or pharmacological assaying. Two to five hours attendance. Six to ten hours laboratory. Two to five hours credit. First semester. Lyman, Perusse
34. **Assaying**—33 continued. Two to five hours attendance. Six to ten hours laboratory. Two to five hours credit. Second semester. Lyman, Perusse

## PHYSIOLOGY

Professor Guenther

1. **General Animal Physiology**—A consideration of the facts and theories underlying the functions of muscle and nerve, of secretion, digestion, absorption, blood and lymph, circulation, respiration, animal heat, metabolism, the central nervous system, special senses and reproduction. A combined lecture, demonstration and laboratory course. Two hours lecture. Three hours laboratory. Two hours credit. First semester. Guenther
2. **General Animal Physiology**—1 continued. Second semester. Guenther

# **The School of Fine Arts**

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**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

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SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University  
Publisher.

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SARA SHEWELL HAYDEN, Director of the School of Fine Arts.

HENRIETTA McELROY BROCK, Instructor in China Painting.

WILLIAM FRANCIS DANN, A. M., Professor of the History and Criti-  
cism of the Fine Arts.

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy, in-  
structing in Aesthetics.

## GENERAL INFORMATION

**Objects.** The School of Fine Arts is organized in the belief that education in Art is as needful for a liberal culture as it is for the training of those who expect to devote themselves to art professionally. Work in the School is, accordingly, planned along two lines:

(1) It gives practical, technical training in drawing, painting, clay modeling, ceramics, etc.

(2) It provides instruction in art criticism,—the applied criticism of the studio, as well as historical, comparative, and theoretical studies. Work in this field is essential to students expecting to make art a profession, whether as teachers or producers, and it is valuable also to others who desire a broad and liberal culture.

**Location and Equipment.** The School of Fine Arts occupies rooms on the third floor of Library Hall. The class rooms are well lighted, attractive and completely equipped with easels, frames and casts. The Fine Arts Gallery, a fire-proof, well lighted room, fitted with two hundred electric lights, is sixty by seventy feet in dimensions. Here are held minor exhibitions, and the annual mid-winter exhibitions by the Nebraska Art Association, of paintings by leading American and foreign artists. The gallery contains the paintings purchased at the annual exhibitions by the Nebraska Art Association, among which are Andre Dauchez's *The Reefs*, Potthast's *The Waning Day*, Harrison's *Harrow Bridge*, Lucy Conant's *The Marshes*, Symon's *Autumn*, and Elizabeth Nourse's *Petit Paysanne de Bretagne*, Barnard's *The Landmark*, Eaton's *Canal at Bruges*. It is equipped also with a collection of casts which has been increased recently by an important purchase conjointly with the Nebraska Art Association of \$700 worth of fine reproductions from the antique.

## COURSES OF INSTRUCTION

Courses are free to all students of the colleges of the University, except where fees are named in connection with certain courses. The fees include the use of the studios.

## TECHNIQUE OF THE FINE ARTS

Director Hayden, Mrs. Brock

1. **Elementary Drawing**—Drawing from geometric solids, still-life, and

antique fragments in outline and in light and shade. Study of values in charcoal and pencil. Designed especially for students in the Mechanic Arts and the Natural Sciences, and for students in the Teachers College. Two hours per week with instructor; assigned exercises. One hour credit. First semester.

Hayden

**2. Elementary Drawing**—Course 1 continued. Second semester.

**3. Lecture Course**—Lectures on the technique and terminology of modern painting, in connection with and illustrated by the Annual Exhibition of the Nebraska Art Association. Two lectures a week during the four weeks of the Exhibition; readings and reports. One hour credit for attendance during three Exhibitions.

Hayden

**4. China Painting**—Conventional and the application of original design on china. One hour credit. First and second semesters. Brock

### FEE COURSES

The following courses consist of individual instruction, with fee. College credit is given at the discretion of the instructor, not exceeding a total of four hours. In courses 5, 6, 7, 8, 9, 10, 11, and 12, the fees are for one lesson per week, \$10; for two lessons, \$18; for three lessons, \$25.

**5. Introductory Drawing and Color Work**—Exercises in drawing with pencil and crayon and in water color, for beginners. Designed for those expecting to specialize in art work, either as teachers or producers. First semester.

Hayden

**6. Introductory Drawing and Color Work**—Course 5 continued. Second semester.

**7. Advanced Drawing and Color Work**—Heads and figures in charcoal from the antique for the study of construction and as a preparation for working from life. Still-life and flower painting in oil and water color. Pen and ink with reference to the processes of reproduction. First semester.

Hayden

**8. Advanced Drawing and Color Work**—Course 7 continued. Second semester.

**9. Life**—Drawing and painting from the costumed model. First semester.

Hayden

**10. Life**—Course 9 continued. Second semester.

**11. Theory and Practice of Design**—Studies in the principles of design, with practical application to stenciling, embroidery, leather, metal work, china painting, etc. Twelve weeks only. First and second semesters.

Hayden

**12. Practice in Decorative Art**—Practical work in basketry, crimplé sheet metal work, and decorative leather. Classes formed on demand.

Hayden

**13. China Painting**—Figure painting on porcelain; realistic, enamels, conventional. One hour credit. First and second semesters. Fees: one lesson a week, \$12; two lessons a week, \$23; three lessons a week, \$33.

(Special arrangements will be made for a shorter time.)

**b. Firing China**—A ten weeks course. One-half hour credit. First and second semesters. Fee: \$3.

Brock

**14. Evening Sketch Class**—A studio sketch class, held one evening each week. Free to students entered in any fee-bearing course in the School of Fine Arts. All others, \$3 a semester.

Hayden

**15. Teachers' Advanced Course**—Work suitable to the individual needs of those teaching or expecting to teach in the public schools.

Hayden

## HISTORY AND CRITICISM OF THE FINE ARTS

Professor Dann

The courses open to students in this department of the School of Fine Arts are listed under the sub-head of "Fine Arts" in the department of Greek Language and Literature, courses 40, 41, 42, 43, 44, 45, and 46, and are described in detail under the department heading in the general "Courses of Instruction." These courses consider, in addition to biographical and historical studies, the fundamental principles of aesthetic criticism; the form and spirit of art in relation to nature, to science, and to life; the conventions of architecture, sculpture, and painting. They consist of lectures and discussions in class, readings, and preparation of papers on assigned topics.

## AESTHETICS

Professor Alexander

The courses in Aesthetics are those listed in the general "Courses of Instruction" as Philosophy 41, 42 and 50, and must be registered for as such. These courses are designed primarily for third and fourth year students of the Colleges of the University. It is expected that Art students entering them will have had preliminary work in the technical or historical courses. All students registering for Philosophy 41 are urged to take in connection therewith the Technique of Fine Arts course 3 ("Lecture Course"). Students may register synchronously for 42 and 50.



# **Roster of Students and Degrees**

**and Index to Complete Catalog**

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## DEGREES CONFERRED IN 1910-1911\*

## Mid-Winter Commencement—1911

## THE COLLEGE OF ARTS AND SCIENCES

*Bachelors of Arts*—16

William Fleming	Lavern McDavitt
Paul John Halldorson	Frank John Munday
Esther Amelia Hunter	Edward James Patterson
Henry Carl Luckey	Ella Irene Schwake
Cordelia Elizabeth Luikart	Farnham Elliott Watters

*Bachelors of Science*—2

Milton Frederick Arnholt	Yale Chenoweth Holland
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## THE TEACHERS COLLEGE

*Bachelors of Arts*—2

Jessie Margaret Culley	Albert Harrison Gutberlet
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## THE COLLEGE OF ENGINEERING

*Bachelors of Science*—9

Charles Godfrey Bolibaugh	Paul Harold Pierce
Joseph Patrick Burke	Carlos Oliver Smith
Richard Oscar Green	Harold Foster Wallace
Arthur Rolland Kessler	Frank Storey Wiles
Calvin Turner Moore	

## THE COLLEGE OF AGRICULTURE

*Bachelor of Science in Agriculture*—1

## Homer Lawrence Matthews

## THE COLLEGE OF LAW

*Bachelors of Laws*—4

Benjamin Alonzo Brown	Barton Lamb Green
Frank Charles Burke	Albert Milton Thompson

## THE GRADUATE COLLEGE

*Masters of Arts*—4

George Herbert Coons, A. B., 1908, The University of Illinois—Agricultural Botany	
Otto Julius Graf, A. B., 1904, Union College—Philosophy, Political Science and Sociology	
Robert Melyne Isham, A. B., 1909, Nebraska Wesleyan University—Chemistry	
John Ernst Weaver, B. Sc., 1909, The University of Nebraska—Botany	

## June Commencement—1911

## THE COLLEGE OF ARTS AND SCIENCES

*Bachelors of Arts*—100

Matilda Christene Anderbery	Jessie Gretchen Beghtol
Christian Alfred Anderson	Lillie Ida Behle
Vera Viola Barger	Charles Emile Benson
Ruby Elizabeth Barns	Theodore H. Bierman
Mittie Mabel Beecher	Breta Bills
Fenna Caroline Beeler	Maude Birkby

\* Since this catalog is printed before the June and July graduation exercises held at the close of the University year, 1911-1912, the names here published are of those who were granted degrees between September 1, 1910, and September 1, 1911, which dates mark a regular University year.

These time limits also obtain with respect to certificates granted.

Hugh J. Bolinger  
 Jacob P. Buller  
 Theodore Tunison Bullock  
 Ben Mark Cherrington  
 Mona Lois Clearman  
 Ralph George Coad  
 Gertrude Lorella Coon  
 Helen Bissing Davis  
 Frank Dickinson  
 Francis Elmer Dinsmore  
 Nellie Boyd Drake  
 Florence Dutton  
 Clara Almeda Erickson  
 Halle Laura Ewing  
 Herbert Ford  
 Karl Philip Frederick  
 Annie Clarissa Fry  
 Maude Hazel Gaeckler  
 Floyd Whitney Gail  
 Clarence Winfield George  
 Wade Goble  
 George Harvey Graham  
 Ernest Herman Hahne  
 Edith Evangeline Hanna  
 Arthur Merlin Hare  
 Henry Cook Hathaway  
 Ruth Florence Heacock  
 Sarah Martha Herrington  
 Carrie Elizabeth Hesseltine  
 Harry Goodhue Huse  
 Alice Rothwell Iverson  
 Andrew Petersen Juhl  
 John Jay Keegan  
 Victor Walton Krause  
 Aletha Viola Lane  
 Earl Jackson Lee  
 Lynn Lloyd  
 Carl Jacobs Lord  
 Alice John McCullough  
 Earl McLean  
 Byrne Campbell Marcellus  
 Roy Frederick Mather  
 Beth Eloise Maxfield  
 Adelia May Mead

Dorothy Tibbets Miller  
 Millie Lucile Miller  
 Torrence Calvin Moyer  
 Alfred Case Munger  
 Grace Vivian Newbranch  
 Cora Anna Newman  
 Harold Miller Noble  
 Bessie Noyes  
 Arthur Milton Oberfelder  
 Florence Lois Osborne  
 Arne Kristopher Peiterson  
 Edna Perrin  
 Clarence Arthur Pierce  
 Warren Howard Plasters  
 Rebecca Ruth Poska  
 Bernice Marie Prickett  
 Frank Sabin Proudfit  
 Margaret Emily Randall  
 Anan Richard Raymond  
 Guy Euclid Reed  
 Isa Dolores Reed  
 Wm. Oscar Whitefield Reynolds  
 Ray Everette Rice  
 Virginia Noyes Rogers  
 Hattie Elizabeth Rollings  
 Hazel Ethelda Rowland  
 Jasper Ray Shike  
 Carl Shively  
 Anna Caroline Smith  
 Victor Bunnell Smith  
 Helen Lillian Sommer  
 Jettie Arnold Taylor  
 George Joseph Thomas  
 Nova Elizabeth Thomas  
 Florence Sheldon Todd  
 Harold Arnold VanDusen  
 Marion Ely Whitmore  
 Nell Pinkham Whitmore  
 Florence Amelia Whittier  
 Ralph Parks Wilson  
 Kathryn Lamira Windham  
 Elisabeth Marie Wittmann  
 Mary Emeline Wolfe  
 Themas Zachary Zacek

*Bachelors of Science—14*

Harral Wheeler Coulter  
 Allison Harold Durdale  
 William Daniel Heaton  
 Bernard Clifford Hendricks  
 Alice A. Humpe  
 Bertha Nathalia Kramer  
 Joseph Wilson Laughlin

Earle Walter Munson  
 Ward Hughes Powell  
 Samuel Harvey Rathbone, Jr.  
 Clayton Ord Rost  
 Donald Benjamin Steenburg  
 Walter Franklin Weedman  
 Ervin Fillmore Wilson

## THE TEACHERS COLLEGE

*Bachelors of Arts—65*

Esther Mary Adamson  
 Florence N. Allem  
 Mary Belle Badger  
 Blanche Lucille Barker  
 Ella May Barrett  
 Beth Pearl Barton  
 Jessie Biles  
 Esther Mosher Burritt

Myrtle Elizabeth Busk  
 Irma Irene Calhoun  
 Janet Grey Cameron  
 George Crocker  
 Florence Emma Davis  
 Florence Lyman Dohner  
 Jessie Fae Dufur  
 Fayse Florence Farley

Minnie Marguerita Funke	Emma Gerdes Outhouse
<b>Edith Gantt</b>	Meroe Jaynes Outhouse
Marie Isadore Goodfellow	Dolly Catherine Pickel
Lucy May Green	Alice Reynolds Pomeroy
Margaret Guthrie	Catherine Reeder
Jean Delphine Hamilton	Grace Richards
Estelle Fern Hardy	Willamina Alice Richards
Ina Hattie Hendricks	Penelope Patch Ring
Ethel Jane Hilton	Harriet Jane Russell
Lucile Hrubesky	Nelda A. Schmidt
Ethel Florence Hutchinson	Mary Anna Schulte
Olive Mildred Jones	Regina Bernardine Schulte
Mary Lourenza Keech	Myrtle May Scoville
Earl Emmet Lackey	Cecile Maud Snapp
Anna Irene Lammers	Thankful Elizabeth Spaulding
Sophia Josephine Lammers	Annie Maxon Sprague
Ella Imogene McCaig	Mecia Stout
Leah May McClure	Florence Eva Tinkham
Nelle McIntosh	Alfa Frances Warton
Pearl Florence May	Orrilla Fidelia Washburn
Mabel Clare Metcalf	Lena May Williams
Dorothy Lee Morehead	Kathryn Willis
Grace Esther Munson	Mabel Wolcott
Julia Peggy Margaretha Nagl	Elizabeth Wright
Hattie Ruth Ogden	

*Bachelor of Science—1*

John Malcolm Showalter

## THE COLLEGE OF AGRICULTURE

*Bachelors of Science—18*

Alice Miranda Birge	Joseph William Keifer
John Shaw Boyce	Ivan McKellip
Mary-Ellen Brown	Wade Randall Martin
Laura Irene Dalton	Berna Ann Miskell
Tyler Mengel Edgecombe	Maurice Ferdinand Paulson
Kate Field	Albert Pool
Alta May Gooden	David Henry Squires
Howard John Gramlich	Otto Frederick Swenson
Jessie Geneva Greene	David George White

## THE COLLEGE OF ENGINEERING

*Bachelors of Science—43*

Kinju Akagi	William Carlton Hutchison
Alexander Boyd Amberson	Ray Bowerman Hyde
Jacob August Balderson	Thomas Conklin Kelsey
Charles Abel Bennett	John Hubert Kuony
Howard George Berg	Walter John Lempke
George Hugo Joseph Bischof	Glenn Raymond LeRoy
Lester George Bratton	William Arthur Milek
Arch Lee Briggs	Roy Royer Monbeck
Harry Neal Cain	Ora Clair Montgomery
Phillip Windsor Clancy	Ralph William Queal
Nelson Martin Collier	Guy Allan Robertson
Harry Christopher Cusack	Frank Edwin Rohde
Arthur Allan Dobson	Fay Harry Rosencrantz
David Leonard Erickson	Laurence Froyd Seaton
Leonard William Erickson	Arthur Louis Selzer
William Olivet Forman	Martin Louie Struve
John Arthur Francis	James Louis Vollintine
George Davis Galloway	Samuel Zaza Childs Westerfield
Clyde Thomas Graham	Harry Lee White
James Huston Harpham	Guy Morris Williams
Frank Walter Hornung	Charles E. Young
Michael John Hughes	

## THE COLLEGE OF LAW

*Bachelors of Laws*—46

Merton Ong Bates  
 Dwight Day Bell  
 John Bell Brain  
 Robert Turner Cattle  
 Sidney Morrison Collins  
 Ernest Everett Danly  
 Howard Emerson Dixon  
 Stuart Piper Dobbs  
 Charles Wesley Dobry  
 Clark Bentley Evans  
 Allen Wescott Field, Jr.  
 George Nimmons Foster  
 Oden Sebastian Gilmore  
 Charles Powell Griffin  
 Walter K. Hodgkin  
 Yale Chenoweth Holland  
 Walter Vern Kenner  
 Lloyd Addison Kiplinger  
 Irvin Joseph Langer  
 James Ernest Lawrence  
 Fred P. Marconnit  
 George Edward Meier  
 Howard Hamilton Mielenz

Nye Franklin Morehouse  
 Sterling Faan Mutz  
 Herbert Spencer Nightingale  
 Isaac Johnson Nisley  
 Edward James Patterson  
 Josiah French Ratcliff  
 Robert Owen Reddish  
 Erle Hamilton Reid  
 Carl Philip Rohman  
 Charles Robert Stasenka  
 Branson Washburn Stewart  
 Thomas Richard Parson Stocker  
 Samuel Cheslie Stoner  
 Albert Bush Tollefsen  
 Paul Swayne Topping  
 Earle D. Trump  
 Joseph Thomas Votava  
 Oliver Marion Walcott  
 Allen E. Warren  
 Farnham Elliott Watters  
 Ralph Eugene Weaverling  
 Lloyd Edmund Whitney  
 Henry Lloyd Wilson

## THE COLLEGE OF MEDICINE

*Doctors of Medicine*—10

Arno Albert Bald  
 Herman Bocken  
 Frank Asabel Burnham  
 Lorenz William Frank  
 Roy David Martin

Erick Martin Paulus Sward  
 Willis Harvey Taylor  
 Mary Winifred Tucker  
 Archie Walter Ward  
 Reginald Myron Wildish

## DEGREES IN PHARMACY

*Pharmaceutical Chemist*—1

Loren Guy Taylor

*Graduates in Pharmacy*—8

Carl Frederick Rogosch  
 Frank Whitten Schwake  
 Berta Florence Thorpe  
 Miner Hill Whaley.

Henry George Beckord  
 Herbert C. Harden  
 John Henry Neumann  
 Harrie Montross Prouty

## THE GRADUATE COLLEGE

*Masters of Arts*—27

Selma Sophia Anderson, A. B., 1910—Greek, Germanics, Latin  
 Earl Stephen Bishop, B. Sc., 1909, Nebraska Wesleyan University—Agricultural Chemistry  
 Iva Belle Ernsberger, A. B., 1907, Ohio State University—Mathematics  
 Howard Calvin Feemster, A. B., 1902, Drury College—Mathematics  
 John Wesley Field, A. B., 1910, Union College—European History, Philosophy  
 Horace Clyde Filley, A. B., 1903, B. Ed., 1906, Penn State Normal—Agronomy.  
     Animal Husbandry  
 Paul Darwin Foote, A. B., 1909, Adelbert College of Western Reserve University  
     —Physics  
 William Henry Gardner, A. B., 1910, Nebraska Wesleyan University—Agronomy.  
     Animal Husbandry  
 Edith Anita Grimm, A. B., 1909—Roman History and Literature, English Language  
     and Literature  
 Earle George Johnson, A. B., 1910—Physiology, Bacteriology  
 George Newton Lamb, B. Sc., 1909—Botany  
 Edith M. Long, A. B., 1888, Cornell University—Mathematics

Jessie Eugenia McCallum, B. Sc., 1902, The University of Nebraska—Chemistry  
 Guy Raymond McDole, B. Sc., 1910, The University of Nebraska—Agricultural Chemistry  
 Samuel Arthur Mahood, B. Sc., 1910, The University of Nebraska—Chemistry  
 Edgar Matthias Medlar, B. Sc., 1908, Doane College—Zoology  
 Claude William Mitchell, A. B., 1910—Zoology  
 Lewis Bertie Olmstead, B. Sc., 1909, The University of Nebraska—Physics  
 Niels Frederick Petersen, A. B., 1907, The University of Nebraska—Botany  
 Francis John Pipal, A. B., 1908—Botany, Forestry  
 Jennie Louise Piper, A. B., 1904—American History, Geography  
 Henry Miller Scott, A. B., 1909—Philosophy  
 Carrie May Stetler, A. B., 1903—English Language and Literature, Germanics  
 Constance Miriam Syford, A. B., 1909, The University of Nebraska—English Literature, Romance Languages, Germanics  
 Warren Simpson Thompson, A. B., 1907, Nebraska Wesleyan University—Philosophy, Political Science and Sociology  
 Edith May Whyman, A. B., 1905—English Literature  
 John Todd Zimmer, B. Sc., 1910—Entomology

### Summer Session Graduation—1911

#### THE COLLEGE OF ARTS AND SCIENCES

##### *Bachelors of Arts—11*

William Gerhardt Berquist	Anna May Treat
Dale Francis McDonald	Joseph Thomas Votava
Randall R. McGee	Otto Fasolt Walter
Helene Schwab Mitchell	Walter Clatus Weiss
Florence Elizabeth Nye	Arthur Julius Wickland
Hazel Esther Starr	

##### *Bachelors of Science—2*

Percival Howell Bell	Philip Marshall Dale
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#### THE TEACHERS' COLLEGE

##### *Bachelors of Arts—5*

Thekla Wilhelmine Egen	Richard Otto Severin
Marie Josephine Houska	Marguerite Blanchard Stevenson
Frank Covart Jean	

#### THE COLLEGE OF ENGINEERING

##### *Bachelor of Science—1*

Howard Frazier Sutter, in Civil Engineering
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#### THE COLLEGE OF AGRICULTURE

##### *Bachelors of Science—3*

Lynn Hutchinson Douglas	Clarence F. Korstian
Horace James Young	

#### THE COLLEGE OF LAW

##### *Bachelors of Law—2*

Earl Casswell Barker	Charles Edward Decatur, Jr.
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### Certificates Granted—1911\*

#### THE UNIVERSITY TEACHERS' CERTIFICATES—61

##### *Bachelors of Arts—60*

Esther Mary Admison	Beth Pearl Barton
Mary Belle Badger	Ruth Mary Bates
Ella May Barrett	Jessie Biles

\* See foot-note on page 420.

Bessie May Brenizer  
 Esther Mosher Burritt  
 Janet Grey Cameron  
 Jessie Margaret Culley  
 Florence Emma Davis  
 Florence Lyman Dohner  
 Jessie Fae Dufur  
 Thekla Wilhelmine Egen  
 Minnie Marguerita Funke  
 Edith Gantt  
 Lucy May Green  
 Jean Delphine Hamilton  
 Estelle Fern Hardy  
 Ina Hattie Hendricks  
 Ethel Jane Hilton  
 Marie Josephine Houska  
 Lucile Hrubesky  
 Ethel Florence Hutchinson  
 Olive Mildred Jones  
 Mary Lourena Keech  
 Anna Irene Lammers  
 Sophia Josephine Lammers  
 Ella Imogene McCaig  
 Leah May McClure  
 Nelle McIntosh  
 Pearl Florence May  
 Mabel Clare Metcalf

Dorothy Lee Morehead  
 Grace Esther Munson  
 Julia Peggy Margaretha Nagl  
 Hattie Ruth Ogden  
 Emma Gerdes Outhouse  
 Meroe Jaynes Outhouse  
 Dolly Catherine Pickel  
 Alice Reynolds Pomeroy  
 Catherine Reeder  
 Grace Richards  
 Willamina Alice Richards  
 Penelope Patch Ring  
 Harriet Jane Russell  
 Nelda A. Schmidt  
 Regina Bernadine Schulte  
 Myrtle May Scoville  
 Cecile Maud Snapp  
 Thankful Elizabeth Spaulding  
 Annie Maxon Sorague  
 Marguerite Blanchard Stevenson  
 Mecia Stout  
 Florence Eva Tinkham  
 Alfa Frances Warton  
 Orrilla Fidelia Washburn  
 Lena May Williams  
 Mabel Wolcott  
 Elizabeth Wright

*Bachelor of Science—1*  
 John Malcolm Showalter

## SCHOOL OF AGRICULTURE—85

Lyman Louis Aker	William Oscar Goehner
Mary Leonora Amos	Charles Adam Grisel
John Anderson	William Lunsford Hanger
Oscar Ezra Applegate	Joy Hanna
Theodore William Backlund	Linn Ford Hanson
William Frederick Becker	Stewart H. Heiderstadt
Amy Christy Bern	Fred Marshall Ireland
Charles Berry	Edward Booth Isham
Del Jay Bigelow	Gail Marie Junkin
Lee Franklin Bigelow	Charles Lee Kelsey
Nettie Theo Bigelow	Percy Rolland Kent
Willis Nathaniel Brainard	Albert August Kjar
Benjamin Frank Brown	George Pleasant Knapple
Henry Christian Busch	Helge Lauridson
Ray Wilford Carpenter	Charles Gladus Lawrence
Mary Phoebe Cizek	Carl Marcus Lindstedt
Flo Clark	Lee James McCarthy
Frank Howard Cole	Roy McGee
Edgar Dewitt Comstock	Alice Magill
Henry Ala Coupe	Herbert William Maish
Joseph Raymond Davis	Lola Marsh
Melvin Dwight Davis	Ina Rosella Mecham
Harry Calvin Delan	Don Sigal Melton
Warren Gray Dempsey	Carl Herbert Nelson
John D. Dobson	John Nixon
George M. Domingo	Winnie Atunia Ohlsen
Willard Ross Dowd	Ethel Mary Ollis
Daniel Robert Dunn	Dean Horace Osborne
Arthur Maxwell Ellis	Emma Papez
John Eric Erickson	Harrell Leonard Parks
Reuben Ericson	Mary Pascoe
Richard Judson Ford	George Kimmel Petring
Vernon Lasch Gage	Rutherford Jay Posson

## THE UNIVERSITY OF NEBRASKA

Harry Wyatt Richey  
 Arthur Lester Roberts  
 Jay Robinson  
 Willis Rogge  
 Lawrence Owen Rolofson  
 Henry Sindt  
 Karl Sindt  
 Paxton Calladay Stoddart  
 William Michael Streitz  
 Merwin Garvin Strope

William Wallace Strope  
 Archibald Carl Swanson  
 Leonard Burke Taylor  
 Oscar Winters Tupper  
 Edwin Tyson  
 Harry Maurice Wentz  
 Wilmer James Whisenand  
 Frank Luther Wilcox  
 Robert Joseph Wittman

## SCHOOL OF MUSIC CERTIFICATES—24

Elizabeth Batty  
 Blanche Buehler  
 Ethel May Catchcart  
 Ethel Cornell  
 Ralph Darrow  
 Eleanor Drebert  
 Elsa Louise Given  
 Katherine Kimball  
 Lilah Ruth Kincaid  
 Lillian Koch  
 Ruth Beulah Manning  
 Rose Mazur

Elsie May Moore  
 Frances Genevieve Morley  
 Alice Fay Ransom  
 Clarice Miriam Shearer  
 Anna Ray Simpson  
 Lauretta Spencer  
 Adeline Amelia Strickler  
 Rita Thomas  
 Ella Mabel Wells  
 Agnes Margaret Wickstrum  
 Bertha Alice Williams  
 Irmal Elizabeth Zerfing

## PHYSICAL EDUCATION CERTIFICATES—6

Vera Viola Barger  
 Jessie Gretchen Begthol  
 Clara Almeda Erickson

Vita May Gooden  
 Hattie Elizabeth Rollings  
 Anna Caroline Smith

## STATE MILITARY COMMISSIONS—29

Lieutenant Colonel—Harral Wheeler Coulter  
 Majors—Charles Abel Bennett, Frank Edwin Rohde, Walter Clatus Weiss  
 Captains—Merton Ong Bates, Harry Neal Cain, William Olivet Forman, George Davis Galloway, Ernest Herman Hahne, Henry Cook Hathaway, Yale Chenoweth Holland, Clarence F. Korstian, Victor Walton Krause, Carl Jacobs Lord, Clayton Ord Rost, David George White  
 First Lieutenants—Nelson Martin Collier, Charles Wesley Dobry, Joseph William Keifer, John Hubert Kuony, Walter John Lempke, Dale Francis McDonald, Roy Royer Monbeck, Ralph William Queal, James Louis Vollintine  
 Second Lieutenants—George Hugo Joseph Bischof, Arthur Merlin Hare, Arthur Rolland Kessler, Anan Richard Raymond

## SCHOOL OF AGRICULTURE—20

Majors—John Anderson  
 Captains—Oscar Ezra Applegate, Edgar Dewitt Comstock, Daniel Robert Duff, Edward Booth Isham, Lee James McCarthy, Harry Wyatt Richey, Frank Luther Wilcox  
 First Lieutenants—William Frederick Becker, John D. Dobson, Richard Judson Ford, Carl Marcus Lindstedt, Jay Robinson, Harry Maurice Wentz  
 Second Lieutenants—Warren Gray Demaray, Arthur Maxwell Ellison, Charles Lee Kelsey, George Pleasant Knapple, Don Sigal Melton, Arthur Lester Roberts

## GRADUATE STUDENTS IN 1911-1912

## Candidates for the Degree of Doctor of Philosophy

Andrews, Elisha Benjamin.....	Lincoln
A. B. 1870, A. M. 1873, Brown University; D. D. 1884, Colby University; LL. D. 1884, University of Nebraska Political Economy and Commerce, Philosophy	
Barns, Viola Florence.....	Albion
A. B. 1909, A. M. 1910, University of Nebraska American History, English Literature	
Brethouwer, Berend John.....	Fairmont
A. B. 1909, Cotner University; A. M. 1910, University of Nebraska Philosophy, Education	
Currens, Frederick Hawley.....	Omaha
A. B. 1904, A. M. 1907, Coe College Chemistry, Bacteriology	
Gilmore, Melvin Randolph.....	Bethany
A. B. 1904, Cotner University; A. M. 1909, University of Nebraska Botany, Geography	
Hartley, Carl Pierce.....	Washington, D. C.
A. B. 1907, A. M. 1909, University of Nebraska Botany	
*Jackson, William Roberts.....	University Place
A. B. 1902, A. M. 1904, University of Nebraska Education, Political Science	
Johnstone, Harvey Melanchthon.....	University Place
A. B. 1902, A. M. 1906, Cotner University Philosophy, American History	
Krueger, John Fritz.....	Lincoln
A. B. 1903, Midland College Political Science and Sociology, American History	
Lester, Claud Frederick.....	Lincoln
B. S. 1903, Middlebury College, A. M. 1908, Columbia University American History	
Miller, Louise.....	Lincoln
A. B. 1903, A. M. 1905, University of Nebraska English Language and Literature, German	
Mitchell, Claude William.....	Lincoln
A. B. 1910, A. M. 1911, University of Nebraska Zoology, Pharmacology	
Pfeiffer, Laura Belle.....	Lincoln
A. B. 1897, A. M. 1906, University of Nebraska European History	
Putnam, John Jacob.....	Lincoln
B. Sc. 1904, University of Denver; A. M. 1906, University of Chicago Bacteriology	
Pyrtle, Emma Ruth.....	Lincoln
A. B. 1904, A. M. 1907, University of Nebraska Education	
Runge, Lulu Lillian.....	Madison, Wis.
A. B. 1905, A. M. 1909, University of Wisconsin Mathematics	
Scott, Robert Douglas.....	Lincoln
B. Sc. 1904, Kansas State Agricultural College; A. M. 1910, University of Nebraska English Language and Literature, Psychology	
Sturdevant, Lazelle Brantly.....	Lincoln
A. B. 1902, B. Sc. 1903, A. M. 1905, M. D. 1909, University of Nebraska Bacteriology, Zoology	
Sullivan, Mary.....	Omaha
A. B. 1898, A. M. 1900, University of Nebraska English Literature	

\* Deceased.

Swenk, Myron Harmon.....	Lincoln
A. B. 1907, A. M. 1908, University of Nebraska Botany, Entomology	
Tibbets, Anna Mary.....	Lincoln
A. B. 1904, A. M. 1908, University of Nebraska Education, Political Science, European History	
Walker, Leva Belle.....	Lincoln
A. B. 1901, Pacific University; A. M. 1908, University of Nebraska Botany	
Williams, Cyrus Vance.....	University Place
B. Ed. 1909, Peru State Normal; A. M. 1910, University of Nebraska Botany, Zoology	
Worthley, Evans Alvah.....	Wilber
A. B. 1908, Nebraska Wesleyan University Political Science and Sociology, Philosophy	
Zimmer, John Todd.....	Lincoln
B. Sc. 1910, A. M. 1911, University of Nebraska Entomology, Zoology	

### Candidates for the Degree of Master of Arts

Agee, Etta Belle.....	Lincoln
A. B. 1905, University of Nebraska Germanics	
Andersen, Emma Nathalia.....	Ames
A. B. 1909, University of Nebraska Botany	
Armstrong John Ray.....	DeWitt
A. B. 1909, University of Nebraska American History	
Atherton, Loren George.....	Madison, S. D.
A. B. 1906, University of Iowa; M. S. 1908, Christian College Zoology	
Atkins, Will Everett.....	Lawrence
B. S. 1901, Nebraska Wesleyan University Education, Political Science	
Aul, William Eugene Adolphus.....	College View
B. S. 1897, M. S. 1899, Battle Creek College Education, American History	
Austin, Blanche May.....	Lincoln
A. B. 1909, University of Nebraska Latin, English Language and Literature	
Bach, Emma Otilie.....	Lincoln
Graduate, University of Bern Germanics	
Bates, Ruth Mary.....	Lincoln
A. B. 1910, University of Nebraska Botany	
Batty, Alice Mercy.....	Lincoln
A. B. 1909, University of Nebraska Zoology	
Beeler, Fenna Caroline.....	North Platte
A. B. 1911, University of Nebraska Botany	
Benson, Charles Emile.....	Lincoln
A. B. 1911, University of Nebraska Philosophy, Education	
Blish, Morris Joslin.....	Omaha
B. Sc. 1912, University of Nebraska Chemistry	
Blodgett, Rachel Nellie.....	Raymond
A. B. 1910, University of Nebraska English Literature, Germanics	
Boardman, Leland Jaynes.....	Little Valley, N. Y.
A. B. 1910, Oberlin College Physics, Mathematics	

Bradburn, Grace Caroline . . . . .	B. Ph. 1911, Grand Island College	Broken Bow
	Botany	
Bridenbaugh, Nell . . . . .	A. B. 1908, University of Nebraska	Lincoln
	Germanics, English Literature	
Carroll, Charles Eden . . . . .	A. B. 1905, Morningside College	Lincoln
	Political Science and Sociology	
Catlin, Clifford Norman . . . . .	A. B. 1903, University of Nebraska	Lincoln
	Agricultural Chemistry	
Caviness, Leon Leslie . . . . .	A. B. 1906, University of Michigan	College View
	Germanics, Romance Languages, Sanskrit	
Chase, Celia Mary . . . . .	Ph. B. 1908, University of Chicago	University Place
	American History	
Cherry, Edward LeGrande . . . . .	A. B. 1908, University of Nebraska	DeWitt
	Education, Philosophy	
Child, Elmer Ray . . . . .	A. B. 1909, Cotner University	Bethany
	Philosophy, Political Science and Sociology	
Clark, Letta May . . . . .	A. B. 1905, Nebraska Wesleyan University	University Place
	English Literature, Germanics	
Clippinger, Edgar . . . . .	A. B. 1901, Doane College	Sutton
	Educational Theory and Practice, Political Science and Sociology	
Coopersmith, Samuel . . . . .	A. B. 1910, University of North Carolina	Lincoln
	Zoology	
Corbin, Evelyn . . . . .	A. B. 1908, Cotner University	Bethany
	Latin	
Cornell, Clare Brown . . . . .	A. B. 1905, University of Nebraska	Lincoln
	Education, Philosophy	
Coulter, Clara Idella . . . . .	B. Sc. 1910, Nebraska Wesleyan University	Wymore
	Philosophy, Political Science and Sociology	
Crago, Alfred . . . . .	A. B. 1905, University of Nebraska	University Place
	Education, Educational Psychology, Political Science and Sociology	
Crawford, Mary . . . . .	A. B. 1907, University of Nebraska	Kearney
	English Literature, Psychology	
Crocker, George . . . . .	A. B. 1911, University of Nebraska	Lincoln
	Botany, Zoology	
Darling, Mae . . . . .	A. B. 1906, University of Nebraska	Omaha
	European History	
Davis, Searl S. . . . .	A. B. 1909, University of Nebraska	Lincoln
	Political Economy and Commerce	
Davis, William Lloyd . . . . .	A. B. 1908, University of Nebraska	Lincoln
	Physics, Chemistry	
Denny, Glaideth Gainevere . . . . .	A. B. 1908, University of Nebraska	Lincoln
	Germanics	
Dickinson, Frank . . . . .	A. B. 1911, University of Nebraska	Lincoln
	Philosophy, Sociology	

Drake, Nellie Boyd . . . . .	A. B. 1911, University of Nebraska Philosophy	Lincoln
Dreier, Albert Augustus . . . . .	A. B. 1908, Midland College American History	McCool Junction
Duncombe, Frances Evaline . . . . .	A. B. 1897, University of Nebraska English Language and Literature	Lincoln
Dworak, Mayme . . . . .	A. B. 1909, University of Nebraska Botany	Oakdale
Eaton, Clayton Harold . . . . .	A. B. 1910, University of Nebraska Geology	Lincoln
Elliott, Mary Elizabeth . . . . .	A. B. 1909, University of Nebraska American History	Columbus
Ewing, Halle Laura . . . . .	M. D. 1899, University of Michigan; A. B. 1911, University of Nebraska Political Science and Sociology	Lincoln
Feeemster, Silas Calvin . . . . .	A. B. 1907, Drury College American History	York
Foster, Cecelia Agnes . . . . .	A. B. 1908, University of Nebraska European History	Lincoln
Fulk, Joseph Richard . . . . .	A. B. 1903, University of Nebraska Education, American History, English Language and Literature	Seward
Gaeckler, Maude Hazel . . . . .	A. B. 1911, University of Nebraska Greek, Latin	Lincoln
Gail, Floyd Whitney . . . . .	A. B. 1911, University of Nebraska Botany	Lincoln
Gish, Oliver Holmes . . . . .	B. S. 1908, Kansas State Agricultural College Physics	Manhattan, Kansas
Hahn, Henry H. . . . .	A. B. 1890, Ohio Northwest University Educational Theory and Practice, Political Science and Sociology	New York City, N. Y.
Hannah, Margaret Louise . . . . .	A. B. 1907, University of Nebraska Botany	Tilden
Hannan, William Everett . . . . .	A. B. 1907, University of Nebraska Political Science, Political Economy	Lincoln
Hartley, Faye Marie . . . . .	A. B. 1910, University of Nebraska Sociology	Lincoln
Hawes, Annie . . . . .	B. L. 1902, Nebraska Wesleyan University Political Science and Sociology	Lincoln
Hayes, Daniel Webster . . . . .	A. B. 1905, Nebraska Wesleyan University Educational Theory and Practice	Peru
Hays, Frank Alfred . . . . .	B. Sc. 1908, Oklahoma Agricultural College Animal Husbandry, Farm Management	Lincoln
Heath, Eugene Schofield . . . . .	A. B. 1906, Ohio Wesleyan University Botany	Lincoln
Heath, Virginia Shropshire . . . . .	A. B. 1906, Woman's College of Baltimore English Language and Literature	Lincoln

Hendricks, Bernard Clifford.....	Peru
B. E. Peru Normal; B. Sc. 1911, University of Nebraska Chemistry	
Hewitt, Lucy Rockwood.....	Lincoln
A. B. 1909, University of Nebraska English Language and Literature	
Hill, Cora Belle.....	Lincoln
A. B. 1906, University of Nebraska Mathematics	
Hoff, Robert Lee.....	Bethany
A. B. 1894, University of Kansas Mathematics	
Holmes, Helma Lou.....	Tecumseh
A. B. 1909, University of Nebraska Mathematics, Philosophy	
Hrbkova, Sarka.....	Lincoln
A. B. 1909, University of Iowa English Language and Literature, Political Science and Sociology	
Hullhorst, Mary Frederica.....	Lincoln
A. B. 1892, University of Nebraska German	
Humpe, Alice A.....	Lincoln
B. Sc. 1911, University of Nebraska Political Science	
Hunter, Frederick Maurice.....	Lincoln
A. B. 1905, University of Nebraska American History	
Hutchinson, Ethel Florence.....	Lincoln
A. B. 1911, University of Nebraska English Literature, European History	
Ireland, Ethelene.....	Gordon
A. B. 1910, Cotner University English Language and Literature, Philosophy	
Jacobson, Edward Benjamin.....	Lincoln
A. B. 1910, Nebraska Wesleyan University Philosophy, Political Science and Sociology	
Jensen, John Christian.....	University Place
B. Sc. 1909, Nebraska Wesleyan University Physics	
Johnson, Gertrude.....	Upland
A. B. 1910, Nebraska Wesleyan University Botany	
Juhl, Andrew Petersen.....	Lincoln
A. B. 1911, University of Nebraska Germanics	
Jussel, Martin Simon.....	Lincoln
B. Sc. 1910, University of Nebraska Agronomy, Botany	
Kates, Jennie Mae.....	Lincoln
A. B. 1910, University of Nebraska European History	
Kendrick, Raymond Henderson.....	Lincoln
B. S. 1910, Greenville College American History	
Kiesselbach, Theodore Alexander.....	Lincoln
A. B. 1907, B. Sc. 1908, University of Nebraska Experimental Agronomy	
Kinney, Samuel Marks.....	University Place
A. B. 1911, Oberlin College Physics	
Kleihauer, Cleveland.....	Bethany
A. B. 1907, Cotner University Philosophy, Political Science and Sociology	
Kline, Howard Esher.....	University Place
A. B. 1909, Nebraska Wesleyan University Latin	

Kramer, Bertha Nathalia.....	B. Sc. 1911, University of Nebraska Botany	Aurora
Kruckenburg, Minnie Edith.....	A. B. 1909, University of Nebraska Germanics	Lincoln
Lang, Albert Ray.....	A. B. 1909, Nebraska Wesleyan University Education, Philosophy	University Place
Lee, Jessie Alice.....	A. B. 1910, University of Nebraska Botany	Lincoln
Lewis, Leland Judson .....	B. Sc. 1909, Grand Island College Chemistry	Anselmo
Link, George Konrad Karl.....	B. Sc. 1910, University of Chicago Agricultural Botany	Lincoln
Lengman, Effie May.....	A. B. 1910, University of Nebraska English Language and Literature, Rhetoric	Bethany
Loveland, Edward Hildreth.....	B. Sc. 1910, Dartmouth College Dairy Husbandry	Norwich, Vt.
Lowe, Jessie Opal.....	A. B. 1908, Boston University English Language and Literature	Fairmont
Luckey, Bertha Musson.....	A. B. 1910, University of Nebraska Psychology, Education	Lincoln
Luckey, George Paul.....	A. B. 1910, University of Nebraska Physics	Lincoln
Luikart, Cordelia Elizabeth.....	A. B. 1911, University of Nebraska English Language and Literature, Germanics	Norfolk
Lynch, Mary Alice .....	A. B. 1905, Notre Dame American History, Romance Language	Omaha
McPhee, Clarisse Mary.....	A. B. 1902, University of Nebraska English Literature	Lincoln
Mangun, Lloyd Benedict .....	B. S. 1909, Cornell College Chemistry	Leavenworth, Kansas
Mantor, Edna Clara.....	A. B. 1909, University of Nebraska Zoology	Lodgepole
Mattill, Andrew Jacob.....	B. Sc. 1910, Northwestern College Chemistry, Physics	Falls City
Mayland, Dorothy Sophie.....	A. B. 1909, University of Nebraska Germanics	Seward
Mears, Louise Wilhelmina.....	B. E. 1908, Peru State Normal Geography	Auburn
Metcalf, Mabel Clare.....	A. B. 1911, University of Nebraska Botany	Broken Bow
Miles, Frank C.....	A. B. 1912, University of Nebraska Horticulture	Lynch
Monroe, Ernest Franklin.....	LL. B. 1904, A. B. 1907, University of Nebraska Educational Theory and Practice, Political Science and Sociology	Shelton

Meere, Jessie Ruth.....	A. B. 1904, University of Nebraska English Language and Literature, Germanics	Lincoln
Morrison, Estelle Rees.....	A. B. 1909, University of Nebraska English Language and Literature, Rhetoric, Philosophy	Lincoln
Morrison, Harvey Arch.....	B. Sc. 1900, Union College Mathematics	College View
Morton, William Henry Stephenson.....	A. B. 1909, York College Educational Theory and Practice	Plymouth
Moyer, Torrence Calvin.....	A. B. 1911, University of Nebraska	Lincoln
Nichols, Charles Leslie.....	B. S. 1907, Franklin College Civil Engineering	Lincoln
Noll, William Clarence.....	A. B. 1911, York College Zoology	Fairmont
Noyes, Bessie.....	A. B. 1911, University of Nebraska Botany	Lincoln
von Nusbaum, Erich.....	A. B. 1911, University of Nebraska Political Science and Sociology	Eagle
Olmstead, Lewis Bertie.....	B. Sc. 1909, University of Nebraska Physics	Lincoln
Parker, Persis Ruth.....	A. B. 1910, University of Denver English Language and Literature, Philosophy	Julesburg, Colo.
Peitersen, Arne Kristopher.....	A. B. 1911, University of Nebraska	Elkhorn, Ia.
Persinger, Mary Eudora.....	A. B. 1910, University of Nebraska Botany	Lincoln
Petersen, Niels Frederick.....	A. B. 1907, University of Nebraska Germanics	Plainview
Phillips, Arlene Buchan.....	B. Sc. 1908, University of Nebraska Botany, Zoology	Aurora
Price, Ruth Amelia.....	A. B. 1909, University of Nebraska Political Science and Sociology, Education	Hastings
Puffer, Lewis Morgan.....	Ph. B. 1898, Hamlin University Chemistry	Lincoln
Reed, Albert Alison.....	A. B. 1898, The University of Nebraska Education, English Language and Literature	Lincoln
Reed, Isa Dolores.....	A. B. 1911, University of Nebraska	Lincoln
Reisch, Frank Herman.....	A. B. 1909, University of Nebraska Germanics	Lincoln
Rost, Clayton Ord.....	B. Sc. 1911, University of Nebraska Agricultural Chemistry	Page
Sanborne, Sarah Minier.....	A. B. 1908, Bryn Mawr College Latin	Omaha

## THE UNIVERSITY OF NEBRASKA

Seaboreugh, Ray James.....		University Place
	A. B. 1909, University of Nebraska Geography	
Schulte, Mary Anna.....		Lincoln
	A. B. 1911, University of Nebraska Botany	
Schulte, Regina Bernardine.....		Lincoln
	A. B. 1911, University of Nebraska Botany	
Sealey, Harry Jeptha.....		Pierce
	B. D. 1907, B. B. L. 1908, Atlanta Theological Seminary Philosophy	
Shanafelt, Otis Guy.....		Lincoln
	A. B. 1910, University of Michigan English Language and Literature	
Smith, Margaret J.....		Lincoln
	A. B. 1908, University of Nebraska Philosophy, Mathematics	
Sponsler, Olenus Lee.....		Lincoln
	A. B. 1910, University of Michigan Botany	
Starr, John Wilson.....		Genoa
	A. B. 1911, Nebraska Wesleyan University Philosophy, Political Science and Sociology	
Tate, John Torrence.....		Lincoln
	B. Sc. 1910, University of Nebraska Physics, Mathematics	
Teach, Charles Elden.....		University Place
	A. B. 1903, University of Nebraska American History, Political Science and Sociology	
Thiel, Leo Francis.....		College View
	A. B. 1911, Union College English Language and Literature	
Vail, Nellie Antoinette.....		Lincoln
	A. B. 1909, University of Nebraska Botany, Educational Theory and Practice	
Warnock, Elsie.....		Wayne
	A. B. 1908, University of Nebraska English Language and Literature	
Wendland, Henry William.....		Osceola
	A. B. 1905, Doane College Germanics	
Wendland, Janie Pulver.....		Osceola
	B. L. 1902, Doane College English Language and Literature	
White, Laura Amanda.....		Webster City, Ia.
	A. B. 1904, University of Nebraska American History, European History	
Wickland, Arthur Julius.....		Lincoln
	A. B. 1911, University of Nebraska English Language and Literature	
Wiese Otto.....		Avoca, Ia.
	B. Sc. 1911, University of Wisconsin Chemistry	
Wilhelmsen, Emma.....		St. Paul
	A. B. 1902, University of Nebraska Education, Philosophy	
Williamson, George Faxon.....		Lincoln
	A. B. 1907, University of Nebraska Philosophy	
Wilson, Bert.....		Bethany
	A. B. 1909, Cotner University Sociology	
Wilson, Ervin Fillmore.....		Columbus
	B. Sc. 1911, University of Nebraska Chemistry	

Wolfanger, Lenora Olive.....	Plattsmouth
B. Sc. 1910, University of Nebraska Botany, Zoology	
Wolgamot, Winifred Olta.....	Lincoln
A. B. 1902, University of Nebraska Education	
Woodard, John Albert.....	Havelock
A. B. 1909, University of Nebraska Education, Educational Psychology	
Worster, William W.....	College View
A. B. 1911, Union College; M. D. 1901, American Medical Missionary College Physiological Chemistry, Pathology	
Wort, Julia Minot.....	Lincoln
A. B. 1897, University of Nebraska European History	
Young, Horace James.....	North Bend
B. Sc. 1911, University of Nebraska Agronomy, Economic Geology	
Young, Mary Clara.....	Lincoln
A. B. 1907, University of Nebraska Mathematics	

### Candidates for the Degree of Master of Forestry

Boyce, John Shaw.....	Lincoln
B. Sc. 1911, University of Nebraska Forestry	
Korstian, Clarence F.....	Crete
B. Sc. 1911, University of Nebraska Forestry	
Phillips, Richard Allison.....	Lincoln
B. Sc. 1912, University of Nebraska Forestry	
Swenson, Otto Frederick.....	Holdrege
B. Sc. 1911, University of Nebraska Forestry	
White, David George .....	Plattsmouth
B. Sc. 1911, University of Nebraska Forestry	

### Candidate for the Degree of Master of Science in Civil Engineering

Peterson, Theodore Carl.....	Carter
B. Sc. 1911, Grinnell College Civil Engineering	

### Candidate for the Degree of Master of Science in Electrical Engineering

Hoge, John Cameron.....	Lincoln
B. Sc. 1910, University of Nebraska Electrical Engineering	

### Candidate for the Degree of Master of Science in Mechanical Engineering

Berger, Edmond Benjamin.....	Lexington
B. Sc. 1912, University of Nebraska Mechanical Engineering	

## Graduate Students Without Reference to a Degree

Anderbery, Matilda Christene	.....	Wakefield
Bates, Sarah Glazier	A. B. 1911, University of Nebraska	Lincoln
Beckman, John Henry	A. B. 1868, A. M. 1872, Vassar College	Kansas City, Mo.
Bills, Bretta	A. B. 1895, A. M. 1908, University of Nebraska	Lincoln
Brenizer, Bessie May	A. B. 1911, University of Nebraska	Bennet
Buck, Caroline Edna	A. B. 1910, University of Nebraska	Lincoln
Buddenberg, Elfrida Constance	A. B. 1908, Ohio Wesleyan University	Lincoln
Buller, Jacob P.	A. B. 1910, University of Nebraska	Henderson
Bullock, Edna	A. B. 1911, University of Nebraska	Lincoln
Burrage, Dwight Grafton	B. L. 1889, University of Nebraska	Crete
Bushnell, Ora Edna	A. B. 1897, A. M. 1899, Amherst College	Lincoln
Bustard, Eleanor Cameron	A. B. 1910, University of Nebraska	Danville, Va.
Butler, Florence	A. B. 1910, Salem College	Lincoln
Cole, Frank Trimmer	A. B. 1909, University of Nebraska	Nebraska City
Collett, Clinton Ellsworth	C. E. 1909, Ohio Northern University	Fairmont
Cowen, Charles Edward	A. B. 1908, Nebraska Wesleyan University	Clay Center
Davis, Ellsworth Morris	B. S. 1910, Drake University	Lincoln
Davis, Florence Emma	A. B. 1908, University of Nebraska	Lincoln
Dixon, Asher Hooper	A. B. 1911, University of Nebraska	Tekamah
Drake, Fannie Adrienne	A. B. 1909, Marietta College; B. P. 1909, Ohio State Normal College; P. M. 1911, Ohio University	Broken Bow
Ducker, Emma Estelle	A. B. 1906, University of Nebraska	Lead, S. D.
Eccles, Grace	B. Sc. 1895, University of Nebraska	Beatrice
Feeemster, Charles Ferguson	B. Sc. 1906, University of Nebraska	York
Filley, Horace Clyde	A. B. 1911, York College	Lincoln
Forrest, Edith Alma	A. B. 1903, A. M. 1911, University of Nebraska	Lincoln
Fossler, Margaret	A. B. 1910, University of Nebraska	Lincoln
Goodrich, Thomas Victor	B. Sc. 1900, University of Nebraska	Lincoln
Green, Dorothy	A. B. 1904, University of Nebraska; A. M. 1908, University of Wisconsin	Lincoln
Gund, Edna Mann	A. B. 1907, University of Nebraska	Lincoln
Hanson, Ellen Julia	A. B. 1903, University of Nebraska	Columbus
Hardy, Elizabeth Seacrest	B. Sc. 1907, Kansas Agricultural College	Lincoln
	A. B. 1895, University of Nebraska	

## ROSTER OF STUDENTS

437

Hargett, Anderson J.	Lincoln
Houston, Sallie Davis.	Sheldon, Mo.
Hunter, Myrtle Elizabeth	Lebanon
Ph. B. 1909, Bellevue College	
Ingalsbe, Grace	Inland
B. Sc. 1901, Hastings College	
Johnson, Beatrice	Lincoln
A. B. 1910, Mount St. Joseph College	
Johnson, Orville Maurice	Strang
A. B. 1909, Cotner University	
Johnston, Mary	Bloomington
A. B. 1905, Nebraska Wesleyan University	
Keiser, Albert	Crab Orchard
A. B. 1911, Wartburg College	
Ketridge, John Chester	Lincoln
B. Sc. 1909, University of Nebraska	
Korner, Gertrude Fern.	Lincoln
A. B. 1906, University of Nebraska	
Latimer, Homer Barker	University Place
A. B. 1907, A. M. 1908, University of Minnesota	
Lynch, Annie Laurie	Lincoln
A. B. 1910, Notre Dame	
McLean, Earl	Lincoln
A. B. 1911, University of Nebraska	
McVeigh, Mabelle Rae.	Norfolk
A. B. 1910, University of Nebraska	
Miskell, Berna Ann.	Lincoln
B. Sc. 1911, University of Nebraska	
Muir, Sarah Theodosia	Lincoln
A. B. 1900, A. M. 1906, University of Nebraska	
Myers, Eda Bernice.	Lincoln
A. B. 1907, University of Nebraska	
Nelson, James Carlton.	Marshalltown, Ia.
B. S. 1890, A. M. 1893, Hanover College	
Newman, Minnie Mae.	Lincoln
A. B. 1910, University of Nebraska	
Parminter, Hugh Earnest.	Bethany
A. B. 1911, Cotner University	
Pattison, Warren Berry.	Lincoln
B. Sc. 1910, Westminster College	
Plybon, Walter	University Place
B. Sc. 1908, Nebraska Wesleyan University	
Putney, Nelie Ada.	Lincoln
A. B. 1908, University of Nebraska	
Rutledge, Ida Luella	Lincoln
A. B. 1910, University of Nebraska	
Scott, Henry Miller	Lincoln
A. B. 1909, A. M. 1911, University of Nebraska	
Sheehan, Elizabeth Anne	Columbus
B. Sc. 1911, Fremont Normal College	
Smith, Amarilla Cobern	Talmage
A. B. 1909, Cotner University	
Snyder, Helen Jane	Lincoln
A. B. 1909, University of Nebraska	
Sowell, James William	Omaha
A. B. 1900, Gallaudet College	
Stuff, Frederick Ames	Lincoln
A. B. 1893, Nebraska Wesleyan University; A. M. 1900, University of Nebraska; Litt. D. 1911, Nebraska Wesleyan University	
Sutherland, Lillian Jane.	Grand Island
A. B. 1910, Grand Island College	
Thompson, Alva Dor	Nelson
A. B. 1901, Colorado College	
Van Buskirk, Besse A.	Bethany
A. B. 1911, Cotner University	

Ward, Lydia Moore	Lincoln
B. L. 1899, University of Wisconsin	
Watson, Julia Permelia	Lincoln
A. B. 1888, Iowa Wesleyan University	
Weaver, John Ernst	Lincoln
B. Sc. 1909, A. M. 1911, University of Nebraska	
Whitehorn, Homer Austin	University Place
A. B. 1908, Nebraska Wesleyan University	
Wilke, Charlotte	Lincoln
A. B. 1910, University of Nebraska	
Wittmann, Elisabeth Marie	Lincoln
A. B. 1911, University of Nebraska	
Wood, Adah Mary	University Place
A. B. 1911, Nebraska Wesleyan University	
Wood, Norman Elmore	Grand Island
A. B. 1906, Ottawa University	
Yont, Rose	Lincoln
A. B. 1903, A. M. 1907, University of Nebraska	

1911-1912

## ROSTER OF STUDENTS IN THE COLLEGES\*

Standing granted on the basis of

- (1) Baccalaureate Degree, (2) Thirty "Points" (Complete) or Twenty-four "Points" (Conditional) entrance to the Freshman Year, (3) "Adult Special" registration (At least twenty-one years of age).

## Abbreviations

Letters indicate college and figure indicates year.

A—College of Arts and Sciences; CA—College of Agriculture; T—Teachers College; E—College of Engineering; L—College of Law; M—College of Medicine; G—Graduate College; u—Unclassed, or "Adult Special."

Name	College and Year	Home Address
Abbott, Christopher J.	A 3, L 1.	Hyannis
Abbott, Earl Leslie	CA 1.	David City
Aber, Sadie Dunning	A 1.	Sheridan, Wyo.
Ackerman, George Morris	E 4.	Ainsworth
Ackerman, Ruth Lovilla	A 1.	Los Angeles, Cal.
Adams, Alvin Edgar	E 1.	Waverly
Adams, Charles Glenn	L 3.	Lincoln
Adams, Edgar Malcolm	L 2.	Lincoln
Adams, Lelia White	Au.	Lincoln
Adams, Lloyd H.	A 2.	Omaha
Adams, Percy A.	A 3, (S)	Lincoln
Adkins, Stephen Corson	Mu.	University Place
Adson, Alfred Washington	A 4, M 2, (S)	College View
Agee, Etta Belle	G.	Lincoln
Ager, Ralph Edward	CA 1.	Lincoln
Agor, Hugh	A 2.	St. Paul
Ahrens, Don Earl	E 2.	Sidney
Albert, Fred Craig	E 1.	Columbus
Albright, Edna Jennie	Au, (Ex).	Murdock
Aldrich, George Stroman	A 1.	David City
Aldrich, Joseph	A 3.	Lincoln
Alexander, Bess	A 4.	Tecumseh
Alexander, John Merriam	L 1.	Lincoln
Alexis, Johannes Leonard Crispin	Au.	Lincoln
Alexis, Oscar Ebenezer	A 1.	Lincoln
Allan, Roy Folger	A 3.	Omaha
Allen, Charlotte Moore	A 1.	St. Joseph, Mo.
Allen, Edith MaGee	A 1.	Lincoln
Allen, Ephriam David	CA 1.	Clay Center
Allen, George Hamilton	E 1.	Lincoln
Allen, Hazel Marcia	CA 1.	Lincoln
Allen, Jeanne	A 2.	Valparaiso
Allen, Leonard Elmer	CA 1.	Tecumseh
Allen, Louis Baker, Jr.	A 3.	Lincoln
Allen, Margaret Anna	Au.	Ansley

\* Immediately following this roster appear the names of students registered primarily in a school or in University Extension work. No name appears on more than one roster. For definition of letters in parentheses, see second roster immediately following.

Allison, J. Ned.....	A 3.....	Sterling
Allison, James Everett.....	E 1.....	Hastings
Allyn, Arthur Ernest.....	A 2.....	Hastings
Alsworth, Fannie Elzira.....	Au.....	Lincoln
Ames, Burnham B.....	E 1.....	Normal
Anderbery, Matilda Christene.....	G, (S).....	Wakefield Valley
Andersen, Einar.....	A 1.....	
Andersen, Emma Nathalia.....	G.....	Ames
Andersen, Ingvard Marius.....	A 3.....	Harding
Anderson, Andrew Emmett.....	A 3.....	Lincoln
Anderson, Andrew Victor.....	E 3.....	Lincoln
Anderson, Arthur Eugene.....	A 4, CA 4, (S).....	Concord
Anderson, Charles Elmer.....	Eu.....	Omaha
Anderson, Ellen Louise.....	A 4.....	Harlan, Ia.
Anderson, Elmer LeRoy.....	E 2.....	Lincoln
Anderson, Ernest Gustaf.....	CA 2.....	Concord
Anderson, Eva Veronica.....	A 2, (S).....	Lincoln
Anderson, Harry Wallace.....	A 1, (4 yr. Pharmacy).....	Clarks
Anderson, Lee Norman.....	CA 1, (HSAc).....	Harlan, Ia.
Anderson, Lewis Robbins.....	CA 4.....	Genoa
Anderson, Mamie.....	A 1.....	Shelby
Anderson, Mary Annette.....	A 2, (Ex).....	Lincoln
Anderson, Mildred Johanna.....	Au, (Ex).....	Milford
Anderson, Paul John.....	CA 1.....	Omaha
Anderson, Ruby Lydia.....	Au.....	Gothenburg
Anderson, Ruth Matilda.....	A 1.....	Kearney
Anderson, Verna Ruth.....	A 1, (FA).....	Holdrege
Anderson, William Namee.....	M cum laude.....	Omaha
Andrews, Clayton Farrington.....	A 2.....	St. Paul
Andrews, Elisha Benjamin.....	G.....	Lincoln
Andrews, John Ainsworth.....	CA 2, E 2.....	Fremont
Andrews, Mitchell McCauley.....	A 1.....	College View
Andrews, Muriel Blanche.....	CA 1.....	Lincoln
Anheuser, Ellen Amalia.....	A 4, T 4.....	Omaha
Anheuser, Julie Marie.....	A 1.....	Omaha
Arkeny, Harry Ray.....	L 3.....	Tobias
Arselmo, Sister M.....	A 3, (S).....	Faribault, Minn.
Appel, Ralph Wiley.....	A 1.....	Lincoln
Apperson, Catherine LaMaster.....	A 2.....	Tecumseh
Archibald, Fred Irwin.....	E 1.....	McCook
Arends, Edna Anna.....	CA 3, T 3.....	Syracuse
Arms, Louis Pliny.....	E 3.....	Omaha
Armstrong, Amy Eleanor.....	A 2.....	Syracuse
Armstrong, Ernest Franklin.....	L 3.....	South Auburn
Armstrong, George Jock.....	A 2.....	Omaha
Armstrong, Glen Albert.....	E 2.....	Lincoln
Armstrong, John Ray.....	G, (S).....	DeWitt
Armstrong, Pearl Witte.....	A 2.....	Lincoln
Armstrong, Ralph Harold.....	A 2.....	Greenwood
Armstrong, Robert McDowell.....	L 2.....	Auburn
Armstrong, Vera Elizabeth.....	CA 2.....	Lincoln
Arnhold, Milton Frederick.....	M 3.....	Lincoln
Arnold, Aimee Fay.....	A 2, (S).....	Lincoln
Arnold, Anna Elizabeth.....	Au, (S, Ex).....	Lincoln
Arnold, Frieda Elizabeth.....	A 4, T 1.....	Lincoln
Arnold, Henry J.....	A 2, (S, Ex).....	Sterling
Arnold, Merle Victor.....	A 3.....	Ola, Ark.
Aronson, Delphine.....	A 1.....	Fremont
Aronson, Harold Abe.....	E 1.....	Fremont
Arterburn, Agnes Arrilda.....	A 1.....	Lincoln
Arterburn, Carlos Epperson.....	L 1.....	Lincoln
Asendorf, Bernhardt Herman.....	CA 2.....	Lincoln
Ashtford, Margaret Geraldine.....	A 2.....	Homer
Atton, Harry Lloyd.....	L 2, (S).....	Lincoln
Atten, William Banta.....	A 3.....	Lincoln
Atherton, Loren George.....	G.....	Madison, S. D.
Atkins, Will Everett.....	G (S).....	Lawrence

**ROSTER OF STUDENTS**

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Atwell, Clarence Allen	E 3	University Place
Auch, Mabel Fern	A 1	Lincoln
Aul, William Eugene Adolphus	G. (S)	College View
Austin, Blanche May	G.	Lincoln
Axtell, Vivian Violet	Au.	Lincoln
Ayres, Sarah Edith	A 2	Lincoln
Babbitt, Euacie	Au.	North Platte
Babcock, Alice	A 1, (FA)	Lyons
Babcock, Fred Laurence	A 1	Columbus
Babcock, John Powell	E 1	Columbus
Bach, Emma Ctilie	G.	Lincoln
Bachoritch, Cecil James	E 3	Fairbury
Baer, Alva Aldus	Au. (S)	Lincoln
Bailey, Hazel Fern	Au.	Custer, S.D.
Bailey, Sarah Florence	CA 4, T 4	Cheney
Baird, Florence Isabelle	A 1, (HS)	Lincoln
Baird, John Elmer	E 2	Lincoln
Baird, Sarah Adella	Au.	Lincoln
Baker, Earl Elias	A 2	Havelock
Baker, Susie Helen	A 3	Lincoln
Baldwin, Gertrude Evelyn	Au. (S)	Bethany
Ball, Harry Ross	A 3, L 1	Hastings
Ball, Norris Clifford	CA 1	Geneva
Ballah, Arthur Blaine	A 2	Norfolk
Ballard, Grace	Lu.	Blair
Barber, Bert M.	CA 4	Lewellen
Barber, Margaret Kyle	Au. (S)	Lincoln
Barnard, Murray	CA 2	Beatrice
Barnebey, Ethel	Au. (S)	Lincoln
Barnes, Glenn Hambel	A 2	Fairbury
Barney, Howard	CA 3	Kearney
Barns, Donald Grove	A 1	Albion
Barns, Viola Florence	G.	Albion
Barr, Louise	A 4	Lincoln
Barratt, Milton	A 1	Nebraska City
Barry, Augustus Charles	M 1	Maywood
Barry, John Patrick	E 1	Wahoo
Barstow, Adrian Foote	A 1	Lincoln
Barth, Arbor Francis	A 4, (Ex)	Lincoln
Bartlett, Agness Pauline	A 2	Lincoln
Barton, Clyde Turner	L 1	Pawnee City
Bascom, Vernon	Lu.	Pawnee City
Baskins, Conrad Leslie	L 2	North Platte
Bassler, Herman John	Au. (S)	Sedgwick, Colo.
Bastron, Carl Henry	A 2, (S)	Lincoln
Basye, George Lee	A 4, L 1	Alliance
Bates, Cleo Walter	A 1	Verdigre
Bates, Eula Kathryn	A 4	Springfield
Bates, Ruth Mary	G.	Lincoln
Bates, Sarah Glazier	G.	Lincoln
Bates, William LaVerne	A 4, L 1	Lodgepole
Batty, Alice Mercy	G.	Lincoln
Baumann, William Harry	E 1	Omaha
Bayard, Cornelia Hazel	Au.	Lincoln
Beach, John Roy	A 3	Lincoln
Beach, Perley Isaac	E 4	Alliance
Beach, Vinnie	Au.	Lincoln
Beachley, John Hiram	L 1	Lincoln
Beams, David K.	CA 1	Lincoln
Beard, John Cleveland	A 1	Lincoln
Beatty, Robert Henry	L 3	Brady
Beaumont, Evelyn Nash	A 2	Lincoln
Beaver, Chester Adam	A 3, T 3	Lincoln
Bechter, Leo Allen	A 3	Pierce
Beck, Benjamin Harlow	A 2, CA 2	University Place
Beck, Charles Gordon	CA 2	Peru

Beck, Charles Wesley	E 2	Edgar
Beck, Iva Leota	Au	Lincoln
Becker, Charles Wesley	A 4, M 2, (S)	Lincoln
Becker, William Frederick	CA 1	Lincoln
Beckhoff, Alexander Henry	CA 3	Theford
Beckman, Alfred William	A 4	Lincoln
Beckman, John Henry	G, (S)	Kansas City, Mo.
Beckwith, Bruce Raymond	E 4	Red Cloud
Bedson, Grace Carrie	CA 2, (S)	Lincoln
Bedwell, Louise	A 1	Omaha
Bedwell, Ralph Newton	E 1	Omaha
Beeler, Beryl	A 1	Norfolk
Beeler, Fenna Caroline	G, (S)	North Platte
Beeler, Rex Hugh	E 1	Norfolk
Begley, Frank Daniel	A 1	Springfield
Bell, Alta Rebecca	A 1	University Place
Bell, Lucile	CA 3, T 3, (S)	York
Bell, Percival Howell	A 4, (S)	Lincoln
Belschner, Elsie Lillian	A 2, (S)	Amherst
Bender, Estella May	A 3	Herman, S. D.
Benetta, Sister Mary	Au, (S)	Jackson
Benner, Henry John	Eu, Au, (S)	Scribner
Bennett, Esther Louise	CA 1	Lincoln
Bennett, Grace Mildred	A 4, T 4	Lincoln
Bennett, John Russell	A 1	Pawnee City
Bennett, William Walter	CA 4	Lincoln
Benson, Charles Emile	G	Lincoln
Benson, Emil	Au (S)	Wahoo
Benson, Luella	Au	Lincoln
Beranek, Stanley Charles	A 2	Omaha
Berger, Edmond Benjamin	G, E 4	Lexington
Bernard, Sister Marie	A 2, (S)	Jackson
Berquist, George Martin	E 2	Loomis
Berry, Lela	A 4, T 4	Fairbury
Bevins, Mildred Lorretta	CA 4, T 4, (S)	Omaha
Biba, William August	E 1	Exeter
Bidgood, Orpha	A 1	Woodlake
Biles, Edna	A 4, T 4	Pender
Bills, Breta	G	Lincoln
Binger, Harry Phillip	CA 1	Wilbur
Birch, Bernice Alden	Au	Lincoln
Birkner, Gisela Julia	A 3, T 3	Lincoln
Birmingham, Hugh John	A 3, L 1	O'Neill
Bishop, Harland Dale	E 3	Superior
Bishop, Roy Marcus	E 3	University Place
Bixby, Alice Lorena	A 2	Lincoln
Bixby, Winfred Henry	E 2	Lincoln
Black, Harold Alsworth	E 3	Lincoln
Blackman, Marjorie Hart	A 4	Hastings
Blackstone, George Blanchard	E 4	Craig
Blake, Ethel	A 4	Osceola
Blanchard, James Bowers	E 2	Chadron
Blandin, Alma Claire	CA 2	Western
Blish, Morris Joslin	G, A 4	Omaha
Bliss, Paul Phillip	L 2	Lincoln
Blodgett, Rachel Nellie	G, (S)	Raymond
Bloedorn, John Henrich	L 3	Council Bluffs, Ia.
Blomenkamp, Alvina Marie	A 1	Hastings
Blomenkamp, August E. H.	A 3, M 1	Hastings
Blomenkamp, Ida Florence	A 1	Hastings
Blue, Elmer Cassius	A 3	Tekamah
Blue, Irvin Frederick	Au, (S)	Tekamah
Boardman, Leland Jaynes	G	Little Valley, N. Y.
Bocken, Frank Edward	A 1	Lincoln
Bodley, Ralph Ewart	CA 4	Wahoo
Boehmer, Rupert August	Lu	Lincoln

## ROSTER OF STUDENTS

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Boggs, James Howard	CA 2	Lincoln
Bolibaugh, Oral Bevoly	M 2	Holbrook
Bolling, William Frederick	A 1, (HSAc)	Fort Crook
Boltin, Annetta H.	A 2	Kearney
Bon, Leila Isabelle	A 4, T 4, (S)	Oakdale
Bond, Mary Elizabeth	A 2, (S)	Salt Lake City, Utah
Bonnell, Elizabeth	Au	Lincoln
Bonnell, Fay	Cau	Lincoln
Bonnell, Valeria	A 3, T 3	Lincoln
Bonnell, Winifred Blanche	Au	Lincoln
Bookmeyer, Mary Barbara	CA 2, A 2, (S)	Plattsmouth
Borrowman, George	G	Lincoln
Bostrom, Gustaf Alfred	CA 1	Minden
Bouchal, John Louis	L 3	Wilber
Bouse, Helen Katherine	A 3	David City
Boutelle, Olive Vesta Fern	Au, (S)	College View
Bovee, Gladys Gertrude	A 1	Shawnee, Okla.
Bower, Ernest Harold	Au (S)	College View
Bowers, Nelson James	CA 1	Lincoln
Bowker, Leah	CA 2	Orchard
Boyce, John Shaw	G	Lincoln
Boyles, Dale Skiles	L 3	Alvo
Boyles, Flora Rose	CA 2, (FA)	Alvo
Boynton, Robert Slothawer	E 3	Adams
Brace, Orval Leicester	CA 1	Lincoln
Bracken, Stanley	E 4	Blair
Bradburn, Grace Caroline	G, (S, Ex)	Broken Bow
Bradbury, Ora Geraldine	A 4, T 4	Lincoln
Bradley, Agnes	Au, (S)	Ulysses
Brady, Herman Geer	Au	University Place
Branigan, Marguerite Mary	A 2	Norfolk
Brannon, Earl William	L 1	Lincoln
Branson, Bernice Marie	Au, (FA)	Lincoln
Bratt, Lourene	A 1, (FA)	Lincoln
Bray, Anna Verne	A 1, (S)	Lincoln
Brecks, Olga Elfreda	A 1	Arapahoe
Breen, Leo Joseph	A 2	South Omaha
Breese, Clarice Lina	A 1	Lincoln
Breese, Mabelle Olive	A 4	Lincoln
Breese, Winfield Starr	E 2	Lincoln
Brenizer, Bessie May	G, (S)	Bennet
Brenn, Joseph Patrick	L 2	Fairbury
Brethouwer, Berend John	G	Fairmont
Brewster, Beulah	CA 1	Beatrice
Brian, Roy Edwin	A 1	Lincoln
Bridenbaugh, Nell	G, (S)	Lincoln
Bridenbaugh, Ruth Margaret	A 2	Lincoln
Bridge, Charles Albert	A 1	Norfolk
Bridge, George Donald	A 1	Norfolk
Bridges, Mabel Luella	Au	Sterling
Briggs, Helen	CA 1	Fremont
Broadwell, Crosby M.	E 1	South Omaha
Brock, Lucy Elizabeth	Au, (S)	Bethany
Brodrick, Hattie Mabel	A 4, T 4	College View
Broman, Martin Robert	A 2	Lincoln
Brooks, Frances Alice	A 1	Lincoln
Brother, George Howard	A 3	Beatrice
Brotherton, Blanche	A 1	Omaha
Brown, Andrew Dobbie	M 4	Atlantic, Ia.
Brown, Charles Neil	A 1	Lincoln
Brown, Cora Maude	A 3	Sterling
Brown, Edna May	A 2	Lincoln
Brown, Elsie Emma	A 4	Holdrege
Brown, Ethel	A 4, T 4, (S)	Western
Brown, Frederick Edgar	A 1	Thedford
Brown, Gilbert Silas	Lu	Lincoln

Brown, Harley Franklin . . . . .	A 1 . . . . .	Lincoln
Brown, Irene . . . . .	CA 1 . . . . .	Fremont
Brown, James Lawrence . . . . .	L 3 . . . . .	Nebraska City
Brown, Joseph Edwin . . . . .	E 3 . . . . .	Rushville
Brown, June . . . . .	A 4 . . . . .	Kearney
Brownell, Rainsford Ormond . . . . .	A 3, (S) . . . . .	Schuyler
Brownell, Roy Almond . . . . .	E 3 . . . . .	Lincoln
Brownell, Ruth Miller . . . . .	Au, (S) . . . . .	Lincoln
Bruff, James Russell . . . . .	CA 4 . . . . .	Lincoln
Bruner, Helen Marcia . . . . .	A 3 . . . . .	Lincoln
Brunke, August Frederick . . . . .	E 1 . . . . .	Sterling
Bryan, Silas Millard . . . . .	A 1 . . . . .	Lincoln
Bryan, William Jennings, Jr . . . . .	Au, (S) . . . . .	Lincoln
Buchanan, Charles Coe . . . . .	L 2 . . . . .	Omaha
Bucher, Martha . . . . .	CA 1 . . . . .	Columbus
Buck, Caroline Edna . . . . .	G, (S) . . . . .	Lincoln
Buck, Miriam Patterson . . . . .	A 2 . . . . .	Superior
Buck, Samuel Rea . . . . .	L 3 . . . . .	Superior
Buckles, Emil S. J . . . . .	Au, (S, Ex) . . . . .	Havelock
Buddenberg, Elfrida Constance . . . . .	G . . . . .	Lincoln
Buddenberg, Rahl Stanley . . . . .	E 2 . . . . .	Lincoln
Buis, Albertus Henry . . . . .	A 1 . . . . .	Pender
Buller, Jacob P . . . . .	G, (S) . . . . .	Henderson
Bullock, Edna Dean . . . . .	G . . . . .	Lincoln
Bunt, Gladys Priscilla . . . . .	CA 2 . . . . .	" " " "
Bunting, Herbert Robins . . . . .	E 2 . . . . .	Lincoln
Burdick, Burton Albert . . . . .	G . . . . .	University Place
Buol, John William . . . . .	L 1 . . . . .	Randolph
Buol, Kate Anna . . . . .	CAu . . . . .	Randolph
Buol, Paul Albert . . . . .	E 3 . . . . .	Randolph
Burch, George Baumgartner . . . . .	A 2 . . . . .	Lincoln
Burgess, Frank Dooley, Jr . . . . .	E 2 . . . . .	Cedar Rapids
Burke, Margareta . . . . .	A 1 . . . . .	Omaha
Burkett, Lenore Catherine . . . . .	A 1, (FA) . . . . .	Lincoln
Burn, Robert Raymond . . . . .	CA 2 . . . . .	St. Edward
Burnett, Jerome Benjamin . . . . .	A 1, (HSAc) . . . . .	Lincoln
Burns, Hazel F . . . . .	A 1 . . . . .	Lincoln
Burns, Hiram Delaney . . . . .	A 4, M 2, (S) . . . . .	Omaha
Burr, George Lawrence . . . . .	A 2 . . . . .	Aurora
Burr, Maurice Elbert . . . . .	E 1 . . . . .	Lincoln
Burrage, Dwight Grafton . . . . .	G . . . . .	Crete
Burritt, Grace Helen . . . . .	A 4, T 4, (S) . . . . .	Lincoln
Burrows, Florence Lucile . . . . .	A 1 . . . . .	Lyons, Ia.
Burrows, Margaret . . . . .	Au . . . . .	Lincoln
Burson, James William . . . . .	A 1 . . . . .	Gothenburg
Burtis, Harry James . . . . .	A 3 . . . . .	Lincoln
Burton, Ena . . . . .	A 1 . . . . .	Pawnee City
Bushnell, Herbert Martin . . . . .	L 1, A 1 . . . . .	Lincoln
Bushnell, Ora Edna . . . . .	G, (S) . . . . .	Lincoln
Buss, Will Kenneth . . . . .	Mu . . . . .	Lincoln
Bustard, Eleanor Cameron . . . . .	G . . . . .	Danville, Va.
Butler, Florence . . . . .	G . . . . .	Lincoln
Butler, Helen Condon . . . . .	A 2 . . . . .	Lincoln
Butler, Mildred Harriet . . . . .	A 2 . . . . .	Superior
Buzzell, Dow Alan . . . . .	E 1 . . . . .	Hickman
Byrne, James Joseph . . . . .	Au, (S, Ex) . . . . .	Greeley
Byrnes, John Sheridan . . . . .	A 1 . . . . .	Lincoln
Cady, Richey Earl . . . . .	A 3 . . . . .	Ponca
Cain, Jean Benson . . . . .	L 2 . . . . .	Falls City
Caldwell, Addie Rosina . . . . .	A 3, T 3 . . . . .	Central City
Cales, Thomas Calvin . . . . .	E 2 . . . . .	Wymore
Calhoun, James William . . . . .	A 1 . . . . .	Scottsbluff
Calver, Ben H . . . . .	E 1 . . . . .	Ainsworth
Cameron, Anna Margaretta . . . . .	A 1 . . . . .	Burwell
Cameron, Mary Helen . . . . .	A 3, T 3 . . . . .	Lincoln
Camp, Ray Herbert . . . . .	CA 3 . . . . .	Republican City

## ROSTER OF STUDENTS

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Campbell, Frank Clark.	E 3.	Milestone, Sask., Can.
Campbell, Quintin.	E 1.	Lincoln
Canaday, Floy Mildred.	A 2.	Weeping Water
Canaday, Ralph Oliver.	A 1.	Minden
Canaday, Rula Hazel.	A 1. (S).	Weeping Water
Candy, Charles Mitchell.	E 3. a.	Lincoln
Cannell, Jennie.	A 2.	Lincoln
Cannell, Katherine.	A 3. (S).	Lincoln
Cannell, Paul John.	E 2.	Lincoln
Capps, Queene Belle.	Au. (FA).	Lincoln
Carlson, Frank Emanuel.	Au.	Lincoln
Carlson, George Ludwick.	Mu.	Lincoln
Carlson, Homer Lionel.	E 1. (HSAc).	Omaha
Carlson, Pearl Adaline.	Au. (S).	Creighton
Carns, Helen Mitchell.	A 3. (S).	Lincoln
Carns, Margaret Jane.	Au.	Lincoln
Carpenter, Blanche Etta.	A 3, T 3. (S).	Lincoln
Carr, Allen Earl.	A 2.	Lincoln
Carr, Ivan Nickell.	A 2, M 1.	Lincoln
Carraher, Helen.	Au.	Madison
Carrier, Sam Crowe.	E 3.	Omaha
Carroll, Charles Eden.	G.	Lincoln
Carroll, Lavinia Ruth.	CA 1.	Lincoln
Carroll, Wayne Tom.	A 4, L 1.	Gothenburg
Carse, Earle Russell.	A 3.	Lincoln
Carson, Norma Vere.	A 1.	Lincoln
Carsten, Alma Agnes.	A 2.	Albion
Carsten, Emma Marguerite.	A 2.	Albion
Carter, George Neal.	E 3.	Fullerton
Carter, Grace Celinda.	A 2.	Vicksburg, Mich.
Casper, Robert W.	Mu.	Lincoln
Cast, Karl.	A 1. (S).	Lincoln
Castile, Donald Isaac.	A 4, L 1.	Stromsburg
Castile, Pearl Ida.	A 1. (S).	Stromsburg
Cathey, Cameron.	E 2.	Weeping Water
Catlin, Clifford Norman.	G.	Lincoln
Cavanagh, Cornelia Constance.	A 3, T 3. (S. Ex).	Allen
Caviness, Leon Leslie.	G.	College View
Chase, Ethel Maude.	A 1.	Stanton
Chase, Lou Belle.	Au.	Stanton
Challis, Mary A.	A 2. (S).	Lincoln
Chamberlain, Lorenzo Warner.	Au.	Lincoln
Chamberlain, Samuel Glenn.	CA 2.	Beatrice
Chambers, Alice Orinthia.	A 4, T 4.	West Point
Chambers, Frank Ernest.	A 4, L 1.	West Point
Chapin, Eunice Spalding.	A 1.	Lincoln
Chapin, Mary Leonard.	A 2.	Lincoln
Chapin, William Calvin.	E 1.	University Place
Chapline, William Ridgely.	CA 3.	Lincoln
Chapman, Lewis Carl.	A 2.	Tecumseh
Chappell, Florence May.	A 1. (S).	Osmond
Chase, Celia Mary.	G. (S).	University Place
Chase, Floyd Josiah.	CA 2.	Pawnee City
Chase, Jackson Burton.	L 2.	Omaha
Chatburn, Mary Frances.	A 3.	Lincoln
Chauner, Walter Frank.	E 4. (Ex).	Princeton, Mont.
Cherny, Millie.	A 3, T 3.	North Bend
Cherry, Edward Le Grande.	G. (S).	DeWitt
Chilcoat, Edwin Hammond.	CA 1.	Stanton
Child, Elmer Ray.	G.	Bethany
Childs, Cecil William.	Eu. (HSAc).	Wymore
Chowins, Harold Stanley.	E 3.	Lincoln
Christensen, Arthur Charles.	A 2.	College View
Christian, Daisy Bell.	A 1.	Madison
Christie, James Arthur.	E 1. (HSAc).	Omaha
Christmas, John Alexander.	L 3.	Kemmerer, Wyo

Claar, Charles Edward	Au, (S)	Petersburg
Clark, Clarence Leon	A 4, L 1	Lincoln
Clark, Ethel Cecelia	Au	Lincoln
Clark, George Leonard	E 1	St. Edward
Clark, Hallie H.	CA 3, T 3	University Place
Clark, Hazel Theodora	A 4, T 4, (S)	Lincoln
Clark, James Irving	L 2	St. Edward
Clark, Leroy Benjamin	A 4, (S)	Lincoln
Clark, Letta May	G, (S)	University Place
Clark, Miriam Anne	A 3	Kearney
Clark, Russell Franklin	A 1	South Omaha
Clark, Stuart Kenneth	E 1	Council Bluffs, Ia.
Clark, Vera Imogene	CAu	Kansas City, Mo.
Clary, Cora Ellen	Au, (S)	Lincoln
Clason, Madeline Eugenia	A 1, (S)	Ord
Cleaver, Vera Genevieve	A 3, (S)	Lincoln
Cleaver, Vivien Beatrice	A 2	Lincoln
Cleland, Margaret	Au	Lincoln
Cleveland, Austin Carlyle	A 1	Bloomington
Cline, Earl Melcy	L 2	Lincoln
Clippinger, Edgar	G, (S, Ex)	Sutton
Coale, Lewis	E 1	Lincoln
Cobb, Cecile Eliza	A 4	Harlan, Ia.
Cobb, Elliot Cunningham	M 3	Harlan, Ia.
Codington, Waring Lafayette	E 4	Auburn
Codner, Harry Earl	A 2	Lincoln
Codner, Herbert Grover	E 1	Lincoln
Coe, Irma Grace	A 1	David City
Coffee, Harry Buffington	A 3	Chadron
Coffee, Rex Tisdale	A 1	Chadron
Coffman, Ethel Beulah	A 3	Lincoln
Cogil, Annie Minnie Theodosia	Au, (S)	Lincoln
Colbert, Fred James	A 3	Wabash
Cole, Dana Finley	A 1	Neligh
Cole, Frank Trimmer	G	Nebraska City
Cole, Paul Nicklin	L 2	Lincoln
Coleman, Arthur Bert	A 2	Wymore
Coleman, Rnby Wilhelmina	A 1, (Ex, S)	Gretna
Coleman, Verna Grace	A 4	Lincoln
Collett, Clinton Ellsworth	G, (S)	Fairmont
Collins, Herbine Channing	Au	Lincoln
Collins, Merrill	A 1	Lincoln
Colman, Howard Notson	A 3, M 1	Seward
Coman, Carrie Morna	A 1	Fremont
Compton, Earl Victor	A 1	Cedar Rapids
Condra, Mary Cordelia	A 1, (S, HS)	Lincoln
Cone, Edith Mae	CA 1	Lincoln
Cone, Katherine Elisabeth	CA 1	Ashland
Cone, Oscar Romaine	A 3, (4 yr. Pharmacy)	Lincoln
Cone, Owen Wendle	A 3, (4 yr. Pharmacy)	Lincoln
Conley, Frank Walter	CAu, (SA 1)	Seward
Conley, Victor Hugo	A 1	Nehawka
Connor, Clarence Lee	Lu	Lincoln
Conway, Cora Ellen	CA 2	York
Conway, Delia Mae	CA 2	York
Cook, Emmett J.	CA 1	Lyons
Cook, Esten Henry	E 2	Buda
Cook, Inez Mabel	Au	Beaver Crossing
Cook, Wauneta Emma	A 4, T 4, (S)	Lincoln
Cooley, William Otis	E 1	Lincoln
Coons, Franklin Wayne	Au, (Ex)	Osmond
Coons, Isabel May	A 2	Lincoln
Cooper, Frank Cornell	F 3	Lincoln
Coopersmith, Samuel	G	Lincoln
Corbin, Evelyn	G, (S)	Bethany
Cornelius, Ernest Harry	A 3, (FA)	Hastings

## ROSTER OF STUDENTS

447

Cornell, Clare Brown	G	Lincoln
Cornell, Ethel Ednah	A 1	Lincoln
Correll, Mable Leona	A 2	Cambridge
Coryell, Laura Opal	A 4, T 4	Norfolk
Coryell, Verna Grace	A 3, T 3	Norfolk
Costelloe, Nora Marie	A 2	Alexandria
Cotner, Samuel Orville	L 3	Lincoln
Cotton, Harry Edwin	E 3	Kearney
Coulter, Clara Idella	G	Wymore
Courtintage, Ralph Emmons	L 3	Great Falls, Mont.
Covey, George Worthington	A 4, M 2, (S)	College View
Cowen, Charles Edward	G	Clay Center
Cowgill, William Warick	CA 1	Lincoln
Coykendall, James Marion	CA 2	Aurora
Crago, Alfred	G	University Place
Craig, Alice Rewena	Au, (FA)	Lincoln
Cramb, Arthur Benjamin	M 1	University Place
Cramer, Clarence Charles	A 1	Hardy
Cranceer, Ray Ayotte	L 2	Lincoln
Crawford, Mary	G	Kearney
Creekpaum, Charles Cloyd	A 4	Lincoln
Crocker, George	G, (S)	Lincoln
Cromwell, Richard Oliver	A 4	Weeping Water
Crook, Ira Cleveland	Lu	Salem
Cross, Ethel May	A 1, (S)	Geneva
Cross, Lyman Goodrich	E 2	Lincoln
Crossley, Wilma Ruth	A 4, T 4	Kearney
Crow, Lewis Corbet	CA 1	Thedford
Cruickshank, Catherine Clara	A 3, T 3	Lincoln
Cuba, Mildred Elizabeth	A 1	Schuylerville
Cultra, Carrie Eunice	A 3	Lincoln
Cummins, Harry Alonzo	CA 2	Seward
Cummins, Mildred Louise	A 1	Plattsmouth
Curley, Frank L.	CA 1	Blair
Currens, Frederick Hawley	G, (S)	Omaha
Currier, Edwin Lovejoy	CA 4	St. Edward
Curry, Earl Raymond	L 2	Fairbury
Curry, Mary Elizabeth	CA 2	Harvard
Curti, Ralph Elmer	A 2	South Omaha
Curtis, Louise Frances	A 3	Omaha
Curtis, Randall Fuller	A 4, L 1	Omaha
Curzon, Charles James	E 2	Auburn
Cusack, Alice Mattie	Au	North Bend
Cutright, John Leo	L 1	Lincoln
Dacken, Victor R.	A 1	Harlan, Ia.
Dahlstrom, August Henry	Au	Lincoln
Dahnke, William Charles	A 1	Stratton
Dale, Ernest Edward	A 3, (S)	Greenwood
Dale, Everette Edwin	E 4	Rushville
Dale, Lora Ina	A 2, (S)	Elgin
Dale, Philip Marshall	A 4, (S)	Greenwood
Dale, Stella May	A 1, (S)	Elgin
Daley, Frank Joseph	E 1	Omaha
Dalling, Carl Edwin	A 4	Lincoln
Daniels, Cleo Lucile	Au	Lincoln
Daniels, Florence Alice	Au	Bancroft
Daniels, Mabel Cassie	CA 2	Bancroft
Daniels, Mildred Lyon	A 2	Ord
Danly, Bert Cunningham	CA 3	Axtell
Danly, Roy Howard	CA 2	Axtell
Darling, Mae	G, (S)	Omaha
Darlow, Ida Rowena	A 2	Omaha
Davidson, Beulah Elizabeth	A 1	Hastings
Davies, Reginald Emmett	E 4	Utica
Davis, Celia Grace	A 4, T 4, (S)	Lincoln
Davis, Earl Harrison	A 4	Lincoln

Davis, Ellsworth Morris	G. (S)	Lincoln
Davis, Florence Emma	G.	Lincoln
Davis, Guy Russell	A 4	Lincoln
Davis, Kate Pauline	CA 4, (S)	Lincoln
Davis, Mabelle Eva	A 4, T 4	Humboldt
Davis, Mary Janie	CA 1	Pawnee City
Davis, Mildred Marguerite	A 2	Lincoln
Davis, Robert Lesley	Au.	Lincoln
Davis, Ruth Janette	A 3	Lincoln
Davis, Searl S.	G.	Lincoln
Davis, Walter Coats	L 2	Lincoln
Davis, William Lloyd	G. (S)	Lincoln
Dawson, Frederick George	A 2	Plattsmouth
Dawson, Ralph Ward	A 4	Lincoln
Dawson, Reed Barnes	A 2	Lincoln
Day Alice Ellen	Au. (S)	Lincoln
Debel, Niles Henriksen	A 3	Blair
DeBord, Clarence Elmer	A 1	Roca
DeCou, Richard Cary	E 1	Woodbine, Ia
Deemer, Donald Romaine	E 2	Wymore
DeLamatre, Harry Clayton	A 3	Omaha
Delano, Crawford Morton	E 3	Lincoln
DeLong, Alton Harrison	A 2, (4 yr. Pharmacy)	Hartington
Demel, Christian William	L 1	Central City
Deming, George Warren	CA 1	Fairmont
Dennis, Samuel Jarvis	Lu	Lincoln
Denny, Glaideth Gainevere	G	Lincoln
Denton, Frank Andrew	A 1	Sterling
Denton, Majorie May	A 1	Nebraska City
Derry, Guy Clifton	A 1	Butte
Deweese, Lloyd Elmo	A 1	Lincoln
Dewell, Paul Samuel	A 1, (FA)	Lincoln
Dewey, Arlie Walter	A 2	Lincoln
Dewey, Harold W.	E 1	Ulysses
DeWolf, George Elwin	A 4, T 1, (S. Ex.)	Gibbon
Dexter, Beulah Augusta	A 3	Clarks
Dick, Robert Payne	CA 2	North Platte
Dickinson, Frank	G	Lincoln
Dickinson, Zenas Clark	A 2	Sterling, Colo.
Dickson, Lois Marietta	A 2	Lincoln
Diehl, Bretta Evelyn	A 3	Stratton
Dierks, DeVeré	L 1	Lincoln
Diers, Harold Mentzel	A 2	Madison
Dillon, Ruth Lillian	Au	Lincoln
Dinsmore, Archibald Hughes	A 2	Lincoln
Dinsmore, Helen	A 3, T 3	Lincoln
Dixon, Asher Hooper	G	Tekamah
Dixon, Charles Harold	CA 1	Blair
Dobbs, Chester Blaine	E 1, CA 1	Beatrice
Dobbs, Evelyn Edith	A 3, T 3	Beatrice
Dobson, John D.	CA 1	Cedar Rapids
Dodds, Theodora E.	A 1	Beatrice
Dolan, Warren Edgar	E 1	Arlington
Doll, Henry Clarence	A 1	Blair
Dolman, Adabooth	Au	Lincoln
Donato, Anthony Z.	L 3	Lincoln
Donlen, Daniel Raymond	E 3	Ponca
Doolittle, Warren Andrew	CA 2	North Platte
Dore, Ruth Elizabeth	A 1	Normal
Dort, Edward Nelson	E 1	Auburn
Doty, Ethel Helen	Au. (S)	Pilger
Doud, Ralph Scranton	Lu	Omaha
Douglass, Marie	A 2	Plattsmouth
Douthett, Myrtle Leona	A 1	Overton
Douthitt, Fred D.	CA 2	Lincoln
Dovey, George Oliver	CA 1	Plattsmouth*

## ROSTER OF STUDENTS

449

Dow, Norman E.	E 2	Omaha
Downar, Amon Russell	A 2	Gering
Downey, Ida Belle	A 1	Lincoln
Downing, Jessie Francis	A 1	Rising City
Downing, Lucile M.	A 2	Kearney
Doyle, Louis Niven	A 4, T 4, (S)	Lincoln
Doyle, Otha Henry	L 2	Lincoln
Drake, Bessie Hazel	CA 3, A 3, (S)	Beatrice
Drake, Fannie Adrienne	G	Broken Bow
Drake, Helen Mar.	CA 3, A 3 (S)	Beatrice
Drake, Nellie Boyd	G, (S)	Lincoln
Drake, Robert James	A 3, T 3	Lincoln
Draper, Elton Worden	Mu	Alliance
Drath, Bertha Marie	A 3, T 3	Lincoln
Drath, Carl Edward	A 2	Lincoln
Dredla, Thomas	A 1	Crete
Dreier, Albert Augustus	G, (S)	McCool Junction
Dresher, William Paul	E 1	Lincoln
Driftmier, Rosa Margaret	A 3, (Ex)	Clarinda, Ia.
Driscoll, John Lynn	A 2	Lincoln
Dryden, Frank Merle	A 3	College View
Ducker, Emma Estelle	G, (S)	Lead, S. D.
Dumbolton, Leah Grace	Au	Lincoln
Dunaway, Emmett Harrison	A 2	Overton
Duncombe, Frances Evaline	G	Lincoln
Dunham, Bessie May	A 2	Adams
Dunham, Frances Aileen	A 4, T 4	Lincoln
Dunham, Grace Culver	Au, (S)	Marquette, Mich.
Dunkin, Dorothy Vestina	A 2	Ravenna
Dunkin, Erna Matsler	CA 2, (FA)	Ravenna
Dunlavy, Creta	A 4	Bloomington
Dunten, Wesley Lewis	A 2, (S, Ex)	Pleasant Dale
Dusatko, Louise Anna	A 2	Clarkson
Dutton, George Reynolds	CA 1	Hastings
Dworak, Frank George	A 1	Oakdale
Dworak, Mayme	G, (S)	Oakdale
Dysart, Laberta Rosamond	A 2, (FA)	Eagle
Eads, Lucile Blanche	A 4, T 4	Lincoln
Eason, Alice Faith	CA 1	North Bend
Eason, Myrtle Lucy	CA 1	North Bend
East, Anna Merritt	A 4, (S)	Fremont
Eaton, Clayton Harold	G	Lincoln
Eaton, Frank M.	CA 1, E 1	Aurora
Eaton, Roy Wesley	Au, (Ex)	Geneva
Eaton, Willard Henry, Jr.	CA 1	Prinzhar, Ia.
Ebert, Joseph Francis	L 2	Lincoln
Ebmeyer, Elsie Dorothy	A 3, T 3	Lincoln
Eccles, Grace	G	Beatrice
Eckerson, William Tracy	L 1	Ravenna
Eckert, LaVern Esther	A 1	West Point
Eddy, George Turner	A 2	Fremont
Edgar, Park Lowell	E 3	Scottsbluff
Edgren, Verna	A 2	Lincoln
Edison, Oskar Edwin	E 2	Gothenburg
Edmister, Clifford Raymond	A 1	Lincoln
Edson, Louis Ulmont	A 1, (HSAe)	Council Bluffs, Ia.
Egan, Thomas Germaine	A 1	Nebraska City
Egen, Thekla Wilhelmine	T 4, (S)	Omaha
Eggenberger, Emma Ada	Au	Strang
Ehlers, Bertha Helen Margaret	CA 1	Scribner
Eichar, Winnifred Angela	A 3	Lincoln
Elley, Harold Walter	A 4	Madison
Elliott, Ada Laura	A 1	Lincoln
Elliott, Erl Benton	L 3, A 1	Hartington
Elliott, Mary Elizabeth	G	Columbus
Ellis, Guy Leon	E 1	Beaver Crossing

Ellis, James William.....	A 3, M 2.....	Lincoln
Elwell, John Alcis.....	CA 3.....	Springfield
Emley, Alban Maurice.....	A.....	Werner
Emley, Bruce Waldo.....	A 2.....	Winter
Empey, Helen Katherine.....	A 2.....	Arden
Enfield, Frederick Donald.....	L 1.....	Valley
England, Carlyle Sandon.....	A 1.....	Axtell
English, George William.....	F 1.....	Cochran
Enyeart, Bertha Elmira.....	A 1, (S).....	University Place
Epperson, Charles Haylett.....	A 2.....	Clay Center
Erickson, Arthur.....	F 2.....	Lincoln
Erickson, Charles J.....	E 4.....	Axtell
Erickson, Harold Vernon.....	A 1.....	Funk
Erickson, Melvin.....	E 2.....	Strauburg
Erskine, Earl Bradley.....	M 2.....	Tilden
Erskine, Lowell C.....	A 2.....	Norfolk
Ervin, Grace Louise.....	An.....	Lincoln
Erwin, Grace.....	A 1, (S).....	Gilland
Evans, Edna Ruth.....	CA 2, A 2.....	Fairbury
Evans, James North.....	A 2, (S).....	Colombia
Evans, Myrtle Charles.....	E 3.....	Stella
Evans, Robert V.....	CA 1.....	Lincoln
Evans, Ruth Fay.....	(A).....	Omaha
Eversole, Rebecca Finley.....	A 4, (S).....	Elk Creek
Ewart, Flora Edna.....	An, (S).....	Lincoln
Ewing, Halle Laura.....	G, (S).....	Lincoln
Ewing, Loring LaVerne.....	A 1.....	Biller
Fair, Helen Maud.....	A 2.....	Hardy
Farley, Fletcher Lawrence.....	L 2.....	Bancroft
Farley, William John.....	A 2.....	Aurora
Farlow, Vera Marie.....	A 2.....	Beatrice
Farnan, Florence.....	A 3, T 3.....	Rushville
Farman, George Franklin.....	A 2.....	Rushville
Farrell, Agnes Sarah.....	Au.....	Lincoln
Farrell, Annie Patience.....	Au.....	Hastings
Farrell, Maude Edna.....	A 2, (FA).....	Lincoln
Farrow, Alonzo Fidelas.....	L 2.....	Lincoln
Fate, Clara May.....	A 3, (S).....	Weeping Water
Faulkner, Marie Helen.....	An.....	Lincoln
Fawthrop, Grace Ethel.....	A 2.....	Lincoln
Fedde, Margaret Sophie.....	An, (Ex, S).....	Beeson
Fee, Ray Evans.....	E 1, (HSAc).....	Omaha
Feehster, Charles Ferguson.....	G.....	York
Feehster, Silas Calvin.....	G.....	York
Feltzman, Clinton Earl.....	A 4, (Ex).....	Philippine Islands
Feidler, Anna Agnes.....	Au, (S).....	Alliance
Felton, Nellie Amelia.....	Au.....	Lincoln
Ferguson, Robert Likes.....	A 1.....	Lincoln
Ferris, Joseph Wakin.....	A 1.....	Lincoln
Feigenbaum, Inez Maud.....	Au.....	Lincoln
Field, Edmund.....	A 1.....	Lincoln
Fielding, Fred Hebbard.....	L 2.....	Lincoln
Fields, Gail Incz.....	An.....	Ponca
Filley, Horace Clyde.....	G.....	Lincoln
Fillipi, Joseph A.....	A 1.....	Clarkson
Fillipi, Theodore.....	A 4.....	Lincoln
Finnigan, Mary Agnes.....	An.....	Havelock
Finley, Leonard Paul.....	E 1.....	Wymore
Finley, Robert Halbert.....	E 1.....	Omaha
Fischer, Chester Arthur.....	A 2.....	Lincoln
Fischer, Mary Elizabeth.....	A 1, (S).....	Weeping Water
Fischer, Walter Alfred.....	CA 2.....	Lincoln
Fisher, Carl Leroy.....	F 2.....	Lincoln
Fishwood, Halley M.....	H 2.....	Lincoln
Fishwood, Hazel Charlotte.....	A 3, T 3.....	Lincoln
Fitch, Robin Wynne.....	A 3, T 3.....	Lincoln

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Fitch, Ruth Ione.....	A 1.....	Lincoln
Fitzgerald, Elsie .....	A 2.....	Lincoln
Fitzgerald, Helen .....	A 2.....	Lincoln
Fitzgerald, Joseph Milton.....	L 2.....	Kearney
Fitzgerald, Zora Elizabeth.....	A 4. (S).....	Omaha
Flansburg, Robert Harlan.....	A 1.....	Lincoln
Flatow, August Carl.....	Au.....	Fontanelle
Fleck, Harlow Conrad.....	E 1.....	Lincoln
Fleck, Vera Mary Olive.....	A 1.....	Lincoln
Fleetwood, Leonard Titus.....	A 1.....	Wakefield
Fleming, William.....	L 2. (S).....	Sutton
Flint, Lucius Harold.....	Au.....	Lincoln
Flock, Frances Maud.....	A 4. T 4. (S).....	Blair
Flory, Paul Jones.....	A 3. M 1.....	Pawnee City
Flory, Robert Davison.....	L 1.....	S. Edward
Foe, Howard Samuel.....	A 1.....	P. & G. Cloud
Folda, Albin .....	A 1.....	Clarkson
Folsom, Donald.....	A 1.....	Lincoln
Forbes, Jerome Richard.....	A 3.....	Wayne
Forbes, William Pense.....	CA 4. (S).....	Wayne
von Forell, Ira George.....	A 4. (Ex).....	Chester
Formanek, Joseph Frank.....	E 2.....	Lincoln
Forrest, Edith Alma.....	G.....	Lincoln
Forsling, Clarence Luther.....	CA 1.....	Kimball
Fossler, Margaret.....	G.....	Lincoln
Fossler, Shirley Allan.....	A 2. (S).....	Lincoln
Foster, Bertha Ellen.....	A 3. (S).....	Beatrice
Foster, Bessie .....	A 3. (Ex).....	Sterling
Foster, Cecelia Agnes.....	G.....	Lincoln
Foster, Hazel Lois.....	A 4. T 4.....	Lincoln
Foster, Mary Coneska.....	Au.....	Lincoln
Foster, Richard Joseph.....	E 4.....	Lincoln
Fouts, Henry W.....	A 1.....	Diller
Fouts, Kenneth Clay.....	CA 1.....	Diller
Fowler, Marie Belle.....	CA 2.....	Lincoln
Fowler, William Kirk, Jr.....	A 2.....	Lincoln
Frackelton, James Robert.....	Eu.....	Lincoln
Fraker, Lloyd Royce.....	A 1.....	Lincoln
Francis, Bessie Bruce.....	Au.....	Lincoln
Francis, Frances Edith.....	A 4. T 4.....	Lincoln
Francis, Grace True.....	A 1. (S).....	Crawford
Francis, Roger Vincent.....	E 1.....	Woodriver
Frank, Lena May.....	Au. (S).....	York
Frank, Owen Ashcraft.....	L 2.....	Grand Island
Frank, Theodore Lewis.....	E 1.....	Hastings
Frank, William Ernest.....	A 3.....	Grand Island
Franklin, N. Victor.....	A 2. (HSA).....	Cambridge
Franklin, Phillip Leslie.....	A 3. (S).....	Cambridge
Frazier, William Benton.....	E 1.....	Lincoln
Fredman, Paul Victor.....	E 2.....	Kansas City
Freiday, Lena May.....	Au. (Ex).....	Wesleyan
Freitag, Albert .....	E 3.....	Grand Island
Freitag, Walter Robert.....	E 1.....	Grand Island
French, Inez Alberta.....	Au.....	Lincoln
Friedline, Cora Louisa.....	A 3. T 3.....	Lincoln
Fritchoff, Alma Catherine.....	Au. (S).....	Omaha
Frost, Ernest Ellsworth.....	E 2.....	Lincoln
Frost, Everett Starr.....	A 3.....	Lincoln
Frost, Florence .....	A 2.....	Lincoln
Frost, Gouldene.....	A 2.....	Lincoln
Frost, Hubert Melvin.....	A 3.....	Walling
Frost, Roland Meredith.....	A 3.....	Lincoln
Fuchs, Gustave Otto.....	A 4.....	Stanton
Fulk, Joseph Richard.....	G. (S).....	Seward
Fullaway, Samuel Vanstone, Jr.....	CA 4.....	Omaha
Fuller, C. Rex.....	A 2.....	Emerson

Fuller, Margaret Bradley	J. 3	Wauweta
Fuller, Ralph De Witt	A 2, (S)	Beatrice
Fulton, Edna Inez	A 2	Lincoln
Fulton, Gertrude	Au, (S)	Lincoln
Fulton, Raymond Allinson	E 2	Table Rock
Funabashi, Kensuke	Au	Tsunshima, Japan
Funke, Henry William	L 2	Blue Hill
Furrer, Edward A.	A 2, E 2	Fairfield
Gaeckler, Maude Hazel	G.	Lincoln
Gail, Floyd Whitney	G.	Lincoln
Gail, Harriet Terry	Au	Lincoln
Galbraith, Claude E.	A 1, (S)	Baumer
Gallagher, Edward Mann	A 3	O'Neill
Galloway, Blanche	A 3	Holdrege
Gamble, John William	A 4	Omaha
Gannon, Grace Marie	A 4, T 4	Lincoln
Gant, Minnie	Au, (S)	Lincoln
Ganz, Carl Donald	A 1	Dunbar
Gardner, William Edward	A 2	Gering
Garner, Amy Katherine	A 1	Springfield, Mo.
Garrett, Ralph Wallace	A 4, L 1	Madison
Garst, Virgil Paul	M 3	Omaha
Garver, Raymond Daniel	CA 4, (S)	Fairfield
Gates, Leroy Mallelien	A 3	University Place
Gay, Harold Howard	E 2	Omaha
Gee, Elmer Charles	E 3	Lincoln
Gee Marion Louise	A 1	Lincoln
Gehring, Henry	Au, (S)	Surprise
Geib, George D.	E 1	Omaha
Geis, Herman Harry	E 1	Beaver Crossing
Geissler, Paul Christopher	M 1	Colorado Springs, Colo.
Gellatly, Harry Chalmers	A 1	Lincoln
George, Arthur Gray	CA 3	Cumro
Getty, Robert E.	CA 3	Waco
Gibney, John Edward	A 4	Elkhorn
Gibson, Bertha Martin	Au	Lincoln
Gibson, Frances Emma	A 4	Lincoln
Gibson, Glen Thomas	L 3	Gibson
Gibson, Erma Vida	A 3, T 3	Fremont
Gibson, James Patterson, Jr	E 3	Lincoln
Giffin, Wilson Cassius	E 2	Omaha
Gilbert, Albert Henry	CA 4	Johnson
Gilerest, Leila Linn	CAu	Waverly
Gilfry, Harold Rhea	E 1	Arlington
Gill, Barney William	L 1	Diller
Gillen, Frank Richard	E 1	Lincoln
Gillette, Susan Elizabeth	CA 1	Norfolk
Gilman, Cozier Wellington	CA 1	Auburn
Gilmore, Melvin Randolph	G.	Bethany
Gilmore, Robert Leroy	L 2	York
Gish, Oliver Holmes	G. (S)	Manhattan, Kans.
Gist, Isham Reavis	A 3	Falls City
Gittings, Homer	CA 1	Sunerio
Given, Loretta Allen	A 2	Lincoln
Givens, John Harrison	Au, (HSAc)	Seward
Glade, George Herman, Jr.	E 4	Lincoln
Glade, William Patton	CA 2, E 2	Lincoln
Glenn, Ray Fielding	A 2, (S)	Germantown
Goddard, Edith Alta	A 3	Lincoln
Goddard, Grosvenor	E 2	Lincoln
Godfrey, Earl Lester	CA 1	Cozad
Goehnor, William	CA 1	Seward
Goetze, Hartman Henry	E 1	St. Joseph, Mo.
Goggins, Harry Clinton	L 2	Lincoln
Golden, Martina Frances	A 3, (S)	Lincoln
Goldsmith, Everett Lee	E 2	Lincoln

*ROSTER OF STUDENTS*

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Goldstein, Joseph	L 2	Dawson
Good, Anabel	A 3, (FA)	Lincoln
Goodbody, Maurice Frederick	CA 2	Lincoln
Gooden, Bertha Emily	CAu	Hastings
Goodman, Walter Frank	CA 1	Lincoln
Goodnough, John Harland	M 2	Chadron
Goodrich, Thomas Victor	G	Lincoln
Goodsell, Minnie Elizabeth	A 1	Craig
Gordon, Elizabeth Hope	A 2	Lincoln
Goss, Loy	A 2	Lincoln
Gossard, George Waldo	E 2	Columbus
Gould, Stuart	E 1	Omaha
Gowing, Mabelle Frances	A 4, T 4, (S)	Lincoln
Graham, Archie Ray	L 2	Lincoln
Graham, Harold Smith	E 3	Lincoln
Graham, John Wilmott	L 2	Lincoln
Graham, Robert Arnold	E 4	Fremont
Grainger, Elsie Elizabeth	A 2, (S)	Crete
Gramlich, Louis Trumble	E 3	Lincoln
Gramlich, Ralph Clifford	M 2, (S)	Ft. Crook
Grant, Frank Clarence	L 1	South Omaha
Grant, Jean Anderson	A 2	Auburn
Grassmueck, Ralph Oscar	A 1	Lincoln
Graul, Keith Seward	E 1	Osceola
Graves, Ernest Howard	CA 4	Exeter
Graves, Harriet	A 4	Lincoln
Graves, Jessie Belle	Au	Lincoln
Gray, Elsie Alida	A 3, (S)	Lincoln
Gray, Geraldine Hortense	A 3	Columbus
Gray, Paul Harold	A 1	Davenport
Green, Bertha Louise	Au	Lincoln
Green, Dorothy	G	Lincoln
Green, Hallie Claire	Au, (FA)	Danbury
Green, Ralph Dennis	A 3, T 3	Beaver City
Green, Roy Melvin	E 2	McCook
Greenberg, Abe	A 3, M 1	Omaha
Greer, Kate	Au, (S)	Le Mars, Ia.
Greer, Raymond Clifton Leach	E 1	Marquette
Gregg, Donald T.	E 1	Kearney
Gregg, Lowell Ernest	CA 2	Omaha
Grier, Kenneth Peter	E 1	Seneca
Grievish, Ruth Evelyn	A 2	Lincoln
Griffin, Bayard Franklin	L 1	Lincoln
Griffin, Sam Spielman	L 1	Tekamah
Griffith, Donee	A 4, (S)	Lincoln
Griffiths, Elizabeth	Au	Lincoln
Grimes, John Herbert	E 2	Blue Hill
Grimm, Clarence Gordon	CA 1	Wilber
Grimm, Florence Marie	A 4, T 4, (S)	Lincoln
Grimm, Henry Arnold	A, 1	Lincoln
Griswold, Willard Russell	L 3	Lincoln
Gross, Edward Robert	CA 3, A 3, (S)	Lincoln
Gross, John Joseph	A 1	Wisner
Groves, Benjamin Harrison	E 4	Superior
Grumann, Herbert Richard	A 1	Lincoln
Grupe, Edgar Young	E 1	Lincoln
Guenzel, Carl Stanlev	L 2	Lincoln
Guidinger, Will Walter	A 3	Schuyler
Guilfoil, James Howard	L 2	Hyannis
Gund, Edna Mann	G, (FA)	Lincoln
Gunn, Ella Belle	A 4	Kearney
Gunther, Fred John	E 2	Weeping Water
Guthrie, Louise	CA 4	Lincoln
Guthrie, Richard Terrell	CA 4	Lincoln
Haarmann, Elsa Helene	A 1	Omaha

Hagenstein, Guss, Jr.	L 2	Spencer
Hager, Walter Elsworth	A 1	Bellwood
Haggart, Ralph Archie	L 2	St. Paul
Hahn, Henry H.	G	New York City, N. Y.
Hahne, Ernest Herman	L 2	Lincoln
Haines, Francis Edith	M 3	Columbia, Mo.
Hakanson, Ruth Viola	A 2, (Ex)	Fairfield
Hale, Gifford Nathan	L 2	Lincoln
Haley, William Bernard	L 2	Valentine
Hall, Albert Dare	A 4	Nehawka
Hall, Edith Mead	An, (FA, S)	Lincoln
Hall, Helen Elizabeth	CA 1	Lincoln
Hall, Jervis Leighton	E 2	Lincoln
Hall, Lloyd George	A 3	Lincoln
Hall, Matie Ella	CA 2	York
Halldorson, Ralph Emerson	A 4	Lincoln
Halldorson, Sophia	Au, (FA)	Lincoln
Haller, Ruth	CA 4	Omaha
Halligan, Paul Rolfe	L 3	North Platte
Halligan, Victor Hugo	A 1	North Platte
Halmes, George Nicholas	E 2	Weeping Water
Halsted, Lloyd Dickson	A 4, T 4	Tecumseh
Ham, John Paul	A 4, M 2	Benkelman
Hamilton, Hazel Ellen	A 1	Julesburg, Colo.
Hamilton, Luther Francis	Au, (S, Ex)	Douglas
Hamilton, Margaret	Au, (S)	Omaha
Hamm, Joyce Barbara	CA 1	Enid, Okla.
Hammitt, Walter Frank	M 3	Garwin, Ia.
Hammond, Lucy Hortense	CA 4	Lincoln
Hammond, Mallie Belle	A 2	Lincoln
Hampton, Josephine	A 1	Alliance
Hanger, Wilma	A 1	Lincoln
Hanisch, Louis Everett	A 1	Rockville
Hanks, Mildred Olive	Au	Lincoln
Hanlen, John Greer Leroy	L 2	Tilden
Hanley, Fred Reinig	A 4, (S)	Lincoln
Hanley, Ruby	Au, (FA)	South Omaha
Hanna, Gladys	A 1	Lincoln
Hanna, Ralph Adolph	Au	Lincoln
Hannah, Margaret Louise	G	Tilden
Hannan, William Everett	G	Lincoln
Hans, Oscar E.	E 1	Stanton
Hansen, Elmer Marion	A 1, (4 yr. Pharmacy)	Lincoln
Hansen, George Harold	Mu	Fairbury
Hanson, Ellen Julia	G, (S)	Columbus
Hanson, Henry Sherman	E 1	Clay Center
Hanson, Laura Grace	A 3, T 3	Belvidere
Hanson, Mary Ann	A 2	Lincoln
Hanthorn, Emma Evelyn	A 4, (S)	Lincoln
Hanthorn, Mattie Alice	A 3, (S)	Lincoln
Hanzlik, Milo Otto	A 4, L 1	Cedar Rapids, Ia.
Hapke, Fred Louie	E 1	Wahoo
Harden, Lloyd	E 2	Lincoln
Hardy, Anna Marie	A 4	University Place
Hardy, Elizabeth Seacrest	G	Lincoln
Hare, Max William	E 1	McCook
Harger, Chalmer M.	A 1	Danbury
Hargett, Anderson J.	G, (S)	Lincoln
Hargrave, Mark Cromwell	A 4, (S)	Wymore
Hargrave, Thomas Jean	A 4, (S)	Wymore
Harley, Howard Robertson	CA 1, A 1	Lincoln
Harm, Winfred Bronsert	A 2	Omaha
Harmon, Dewey Jehu	A 3, L 1	Lincoln
Harmon, Hoyt Henry	E 3	Nebraska City
Harms, Charles Wesley Warren	A 4, M 2, (S)	Clatonia
Harper, Helen Emily	A 2	Lincoln

## ROSTER OF STUDENTS

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Harpham, Dorothy Maud	A 2	Lincoln
Harpham, Julius Viyyan	Au	Lincoln
Harpster, Walter Clarence	A 3, T 3, (S)	Neligh
Harrier, Eva Elsie	CA 1	Valley
Harris, Clifford Blaine	E 3	Ohioawa
Harris, Elmer Ray	CA 2	Lincoln
Harris, George Edward	CA 1	Lincoln
Harrison, Benjamin	L 2	Dunbar
Harrison, Mary Grace	A 1, (S)	Lincoln
Harrison, Peter Ira	CA 1	Hebron
Hart, Gladys	A 1, (HSAc)	Hardy
Harte, Lloyd Warden	E 2	Gibbon
Harte, Lucy Christina	A 3	Omaha
Hartley, Carl Pierce	G	Washington, D. C.
Hartley, Faye Marie	G	Lincoln
Hartley, Willard Aaron	A 1	Lincoln
Hartschook, Arthur G.	E 1	Greenwood
Hartt, Earl Wilmot	A 1	Bloomington
Hartwell, Grace Darling	A 1	Pawnee City
Hartwell, John Garrett	L 2	Aladdin, Wyo.
Harvey, Andrew	M 3	North Bend
Harvey, Clarence Wayne	Au	Lincoln
Harvey, David Richard	E 3	Lincoln
Harvey, Howard Clemons	A 2	Lincoln
Harvey, John Frederick	CA 2	Fairbury
Harwell, Jean	Au, (S)	Jacksonville, Fla.
Hascall, Vincent Charles	L 3	Lincoln
Haskell, Arle Bell	A 1	Milldale
Haskell, Roswell	A 2	Lincoln
Hastings, Robert Richardson	L 2	Crete
Hathaway, Henry Cook	L 2	Lincoln
Hathaway, Margaret Hazel	A 4, T 4	Holdrege
Hathway, Oliver Channing	A 2	Lincoln
Hauptman, Charles Albert	E 1	Fremont
Hauptman, Irma Lucinda	Au, (FA)	Lincoln
Hawes, Aunie	G	Lincoln
Hawes, Frank Wilber	E 2	Lincoln
Hawkins, Earl	E 1	Oshkosh, Wis.
Hawkins, Minnie Etta	A 1	Ord
Hawley, Robert D.	L 3	Nebraska City
Hawthorne, Aimee Whitman	Au	Lincoln
Hawthorne, William Lawrence	A 1	Lincoln
Hayes, Daniel W.	G, (Ex)	Peru
Hayes, Frank Alfred	CA 3	Hardy
Hayes, Zoe Isabel	A 1	Hardy
Haynes, Grace Elizabeth	A 3, T 3	Danville, Ind.
Haynes, James Wilbur	E 2	Omaha
Hays, Frank Alfred	G	Lincoln
Heacock, Helen Gertrude	A 3	Lincoln
Heacock, Mary Mills	A 3, (S)	Lincoln
Heagney, Agnes Helen	A 1	Lincoln
Heath, Eugene Schofield	G	Lincoln
Heath, Virginia Shropshire	G	Lincoln
Heaton, Helen Clare	A 1	Wahoo
Hedger, Cora May	Au	Lincoln
Hedin, Viola E.	Au, (S)	Lincoln
Heimer, Eleanor Octavia	A 4, T 4	Gordon
Heine, Clinton Daniel	A 3, M 1	Hooper
Heine, Vincent Julius	CA 2	Hooper
Heitkotter, John George	E 2	Lincoln
Heller, Harriet Hickox	Au, (S)	Lincoln
Henderson, Sarah Curtis	Au	Lincoln
Hendricks, Bernard Clifford	G	Peru
Henry, Vera Avis	A 2	Lincoln
Hepperlen, Thomas Andrew	A 2	Beatrice
Herman Irma Louise	A 4	Lincoln

Herminghaus, Ernst Herman	CA 3, (FA)	Lincoln
Herrick, Marie Louise	A 2	Lincoln
Hess, Etta	A 2	Hebron
Hess, Harvey William	A 2	Hebron
Hetzler, Maurine Ida	A 3	Albion
Hewett, James Kelley	E 3	Alliance
Hewitt, Guy Homer	A 1	Sargent
Hewitt, Lucy Rockwood	G	Lincoln
Heyn, Hugo Gerald	E 1	Omaha
Hiatt, Marjette May	A 2	Murray
Hiber, Marie Helen Louise	A 1, (S)	Plattsmouth
Hickman, Arthur Lynn	E 2	Aurora
Hickman, Leon Archibald	A 1, L 1	Seward
Hicks, Jennie	A 1	Lincoln
Hiett, Myrtle Anna	Au.	Sidney
Higgins, Edith Charity	A 1	Beatrice
Higgins, Ralph Phillip	M 4	Blue Hill
Higgins, Ray Morton	A 3	Hartington
Hildebrand, Bessie Victoria	CAu.	Davenport
Hill, Burton Saufey	L 1	Buffalo, Wyo.
Hill, Cora Belle	G	Lincoln
Hill, Delilah Almeda	A 2	Falls City
Hill, Florence Berneice	A 2	Lincoln
Hills, Ethel Fanny	A 1	Logan, Ia.
Hills, Ruby	A 1	Sidney
Hiltner, Arthur Herbert	A 3	Lincoln
Hindes, Earle P	Eu.	Scottsbluff
Hines, Leon Llewellyn	A 2	Benkelman
Hines, Una	A 1	Hamburg, Ia.
Hoatson, Vernon Lionel	CA 2	Hebron
Hodapp, Edward Paul	A 4, (S)	Humboldt
Hoese, Clara May	A 1	Hartington
Hoff, Robert Lee	G	Bethany
Hoffman, Frank	E 2	Dorchester
Hofmann, Fred Wenzl	G	Omaha
Hoffmeister, George W	A 2	Imperial
Hoge, John Cameron	G	Lincoln
Hogrefe, Hazel Clare	A 4	Stella
Hogue, Harry Chester	E 3, (S)	Crete
Hohmann, William Candee	A 1	Lincoln
Holcomb, Amy Marie	A 4, T 4	Lincoln
Holcomb, Mary Priscilla	A 3, T 3	Osceola
Holden, Lulu Kennard	Au.	Lincoln
Holling, John	E 4	Wood River
Hollingsworth, Robert Mark	Mu.	Arapahoe
Holloway, Helen Marie	Au.	Lincoln
Holman, Grace M	A 4, (S)	Tobias
Holmes, Helma Lou	G	Tecumseh
Holmes, Searle Francis	A 4	Omaha
Holtz, Frederick Carl	E 3	Wahoo
Holtz, Mary Loraine	CA 1	Randolph
Hompes, Addie	Au.	Lincoln
Hooker, Claudius Docy	E 1	Lincoln
Hookstra, Merle Eliza	CA 2	Tonawanda
Hooper, Bert Lester	A 1	College View
Hooton, Mary Belle	Au, (S)	Lincoln
Hoppe, Albert August	A 1, E 1	Lincoln
Hornberger, Evans Zacharius	L 2	Lincoln
Hornby, Harvey Ben	CA 1	Johnstown
Horne, Louis Willard	CA 1	South Omaha
Horst, Phillip William	E 2	Osceola
Horton, Fred Lamerton	A 2	Newcastle, Wyo.
Hosford, Edwin Leith	E 1	Lincoln
Hostetler, Florence Maxine	A 3	Kearney
Hough, John Walter	A 1	Lincoln
Houska, Marie Josephine	T 4, (S)	Omaha

**ROSTER OF STUDENTS**

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Houston, Augusta . . . . .	A 2 . . . . .	Tekamah
Houston, Cinderella . . . . .	A 1 . . . . .	Falls City
Houston, Sallie Davis . . . . .	G . . . . .	Sheldon, Mo.
Howard, Caroline Minerva . . . . .	A 2 . . . . .	Omaha
Howard, George Earle . . . . .	L 2 . . . . .	Lincoln
Howard, Hazel Anna . . . . .	A 2 . . . . .	Omaha
Howard, Hugh J. . . . .	CA 2 . . . . .	Fremont
Howard, Margaret . . . . .	A 1 . . . . .	Phoenix, Ariz.
Howard, Merle Harrison . . . . .	L 2 . . . . .	Omaha
Howard, Rena Althea . . . . .	CA 3 . . . . .	Lincoln
Howard, Warren Harold . . . . .	Lu . . . . .	Omaha
Howe, Donald Kenneth . . . . .	A 1, (HSAc) . . . . .	Omaha
Hrbkova, Sarka Barbara . . . . .	G . . . . .	Lincoln
Hrubesky, Ida . . . . .	A 2, (FA) . . . . .	Geneva
Hubbell, Cliff Jay . . . . .	E 3 . . . . .	Deweese
Hubermann, Ernest John . . . . .	A 3, (S) . . . . .	St. Paul
Huck, Carl Marshall . . . . .	E 2 . . . . .	North Bend
Hudson, Charles Bartlett . . . . .	A 1 . . . . .	Omaha
Huffman, Helen . . . . .	A 1 . . . . .	Sheridan, Wyo.
Hughes, Eda May . . . . .	A 2 . . . . .	Schuyler
Hughes, Winifred . . . . .	Au . . . . .	Lincoln
Hullhorst, Mary Frederica . . . . .	G . . . . .	Lincoln
Hulse, Anna Maud . . . . .	A 3, (S, Ex) . . . . .	Mankato, Kans.
Hume, Fenton . . . . .	L 1 . . . . .	Lincoln
Hummell, Earl Wesley . . . . .	CA 1 . . . . .	Lincoln
Hummel, Ethel Katherine . . . . .	A 4, (S) . . . . .	Lincoln
Hummel, Florence Josephine . . . . .	Au . . . . .	Humboldt
Hummel, Nancy Pearl . . . . .	A 1 . . . . .	Lincoln
Humpe, Alice A . . . . .	G . . . . .	Lincoln
Humphreys, Mary Ellen . . . . .	Au . . . . .	Lincoln
Hunt, Glenn Howard . . . . .	Mu . . . . .	Lincoln
Hunt, Loren Thomas . . . . .	A 1 . . . . .	Lincoln
Hunt, Mable . . . . .	Au, (FA) . . . . .	Lincoln
Hunter, Annamae . . . . .	Au . . . . .	Lincoln
Hunter, Frederick Maurice . . . . .	G . . . . .	Lincoln
Hunter, Myrtle Elizabeth . . . . .	G, (S) . . . . .	Lebanon
Huntington, Imo Josephine . . . . .	A 3, T 3, (S) . . . . .	Falls City
Hursey, Ella May . . . . .	Au, (S) . . . . .	University Place
Hurt, Leon Claude . . . . .	CA 2 . . . . .	Wilsonville
Husenetter, Clyde William . . . . .	E 1 . . . . .	Fremont
Husmann, Ernest Henry . . . . .	Au, (S) . . . . .	Exeter
Husmann, Florence Sherman . . . . .	A 1, (S) . . . . .	Exeter
* Hutchins, James Warren . . . . .	CA 1 . . . . .	Falls City
Hutchinson, Ethel Florence . . . . .	G . . . . .	Lincoln
Huwaldt, Edward . . . . .	A 3 . . . . .	Randolph
Hyde, Edward Leslie . . . . .	L 2 . . . . .	Lincoln
Hyde, Elizabeth . . . . .	A 2 . . . . .	Lincoln
Hyder, Ruth . . . . .	A 3, T 3 . . . . .	Lincoln
Hyder, Verna Gretchen . . . . .	A 4 . . . . .	Lincoln
Hymer, Clara Brown . . . . .	CAu . . . . .	Grand Island
Ingalsbe, Grace . . . . .	G, (S) . . . . .	Inland
Inhelder, Benjamin John . . . . .	A 2 . . . . .	Pierce
Inhelder, Ruth . . . . .	Au . . . . .	Pierce
Ireland, Ethelene . . . . .	G, (S) . . . . .	Gordon
Irvine, Robert Steele . . . . .	A 4, M 2, (S) . . . . .	College View
Israel, Russell William . . . . .	A 1 . . . . .	Omaha
Ives, Verana May . . . . .	A 1 . . . . .	Lincoln
Jackson, Arthur Earl . . . . .	A 1 . . . . .	Nelson
Jackson, Charles Ernest . . . . .	A 1 . . . . .	Cambridge
Jackson, Mabel Emily . . . . .	Au . . . . .	Lincoln
Jackson, Mayme Ethel . . . . .	Au . . . . .	Lincoln
Jackson, Pauline Amanda . . . . .	A 1 . . . . .	Lincoln
Jackson, Ralph Oliver . . . . .	Mu . . . . .	Upland
Jackson, William Edward . . . . .	CA 1 . . . . .	Lincoln
* Jackson, William Roberts . . . . .	G . . . . .	University Place

\* Deceased.

Jackson, Winifred Edith	Au.	Lincoln
Jacobson, Clara Matilda	Au.	Onawa, Ia.
Jacobson, Edward Benjamin	G.	Lincoln
James, Thomas Albert	A 4, L 1, (S)	Lincoln
Janes, Lulu May	A 3, (S)	Lincoln
Janes, Percy Maxwell	A 3	Lincoln
Janouch, Clara	A 2	Lincoln
Janouch, Karl Lawrence	CA 1	Lincoln
Jeary, Clark	L 1	Lincoln
Jeffrey, Georgiana Sinclair	CA 3	Sloane, Ia.
Jelinek, Ruth Gertrude	A 1	Crete
Jenkins, Charlotte Louisa	CA 1	Fairmont
Jenkins, Roscoe Conklin	E 3	St. Michael
Jenkins, Thomas Nichols	A 1	Spencer
* Jenks, Everett Milton	L 2	Scranton, Ia.
Jennings, Jessie Goodell	Au, (S)	Exeter
Jennings, Orie Donald	L 1	Lincoln
Jensen, Holger Victor	CA 1	Sleepy Eye
Jensen, John Christian	G.	University Place
Jensen, Lydia	A 2	Blair
Jess, Helen Madeline	A 2	Plattsmouth
Jewell, Stella Louise	A 4	Weeping Water
Johnson, Albert Washington	CA 1	York
Johnson, Beatrice	G.	Lincoln
Johnson, Bruce Bagley	L 2	Lincoln
Johnson, Clarke Willard	L 2	Grand Island
Johnson, Edla Rene	A 1	Osceola
Johnson, Edna L.	A 1	Sloan
Johnson, Ethel Dorothy	A 3	Broken Bow
Johnson, Evelyn Eleanor	CA 4, T 4	Oakland
Johnson, Gertrude	G.	Upland
Johnson, Harry Walter	A 4	Oakland
Johnson, Ida B.	Au.	Lincoln
Johnson, Joseph Vincent	L 1	Lincoln
Johnson, Julius Andrew	A 1, (HSAc)	Norfolk
Johnson, Mabel Victoria	A 1, (FA)	Valley
Johnson, Mary Ethel	Au.	York
Johnson, Orville Dawson	M 1	Gibbon
Johnson, Orville Maurice	G, (S)	Strang
Johnston, Mary	G, (S)	Bloomington
Johnston, Paul Alfred	E 3	Red Cloud
Johnstone, Harvey Melanchthon	G.	University Place
Jones, Effie Louise	A 4, T 4	Normal
Jones, Elizabeth McKenzie	CA 1	Hartington
Jones, Elmer A	E 2	Carroll
Jones, Essie May	CA 1	Minden
Jones, Frank Lorenzo	E 4	Lincoln
Jones, John Willis, Jr.	L 3	Lincoln
Jones, Mariel Theresa	A 4	Lincoln
Jones, Mildred Marion	A 1	Lincoln
Jones, Myrna Vance	A 2	Hendley
Jones, Nellie Marian	A 3, T 3	Normal
Jones, Orville Leroy	L 2	Neligh
Jordan, Loyd Henry	L 1	Gordon
Jorgenson, Lillie Eleanor	CAu, (S)	Council Bluffs, Ia.
Jouvenat, Victor Frank	A 1	Lincoln
Juergens, Herman	E 2	Scottsbluff
Juhl, Andrew Petersen	G, (S)	Lincoln
Jussel, Martin Simon	G.	Lincoln
Kadel, Ethel Frances	A 1	Genoa
Karten, Clara Caroline	Au, (S)	Crete
Kate, Alice	A 4	Wayne
Kates, Jennie Mae	G, (S)	Lincoln
Kaufman, Geraldine Alice	A 1	Hardy

\* Deceased.

*ROSTER OF STUDENTS*

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Kauffman, Hortense E . . . . .	A 1, (Ex) . . . . .	Hardy
Kautz, Archie Rodkey . . . . .	A 2 . . . . .	Nebraska City
Kavan, William Edward . . . . .	A 2 . . . . .	Omaha
Kay, Mildred Ida . . . . .	A 4, T 4, (S) . . . . .	Ewing
Keech, John McCaffin . . . . .	E 2 . . . . .	Lincoln
Keegan, John Jay . . . . .	A 4, M 2 . . . . .	Alliance
Keifer, Lucy Stout . . . . .	A 4, T 4 . . . . .	Bostwick
Keifer, Margaret Eliza . . . . .	A 3 . . . . .	Bostwick
Keifer, Oswin . . . . .	A 2 . . . . .	Bostwick
Keim, Franklin David . . . . .	A 2 . . . . .	Davenport
Keirle, Clifford Charles . . . . .	E 2 . . . . .	Florence
Keiser, Albert . . . . .	G, (S) . . . . .	Crab Orchard
Keith, Alonzo Fred . . . . .	L 1 . . . . .	Curtis
Keith, Rilla May . . . . .	CA 1 . . . . .	Lincoln
Keller, Giinther Vather . . . . .	E 1 . . . . .	Ft. Morgan, Colo.
Keller, Olive Hawley . . . . .	A 4, T 4, (S) . . . . .	Lincoln
Kellner, Raymond Howard . . . . .	A 2, E 2 . . . . .	Scribner
Kellogg, Rachael Louise . . . . .	A 2 . . . . .	Nebraska City
Kempton, Lloyd Clarence . . . . .	CAu . . . . .	Lincoln
Kenagy, Inez Mildred . . . . .	Au . . . . .	Milford
Kendrick, Raymond Henderson . . . . .	G . . . . .	Lincoln
Kennedy, Alfred Conkling, Jr. . . . .	A 2 . . . . .	Omaha
Kennedy, George Edwin, Jr. . . . .	L 1 . . . . .	Livermore, Calif.
Kennedy, Roxy Avis . . . . .	Au . . . . .	Lincoln
Kenny, Ernest Floyd . . . . .	Au, (FA) . . . . .	Lincoln
Kepner, Raymond Brandt . . . . .	A 2 . . . . .	Havelock
Kerr, Nellie Lewis . . . . .	Au . . . . .	Lincoln
Kerr, Robert Henderson . . . . .	M 1 . . . . .	Robert
Kess, Anna Barbara . . . . .	A 4, T 4 . . . . .	Lincoln
Kettridge, John Chester . . . . .	G . . . . .	Lincoln
Kiburz, George Lloyd . . . . .	A 1 . . . . .	Dewitt
Kidd, Dora Aldona . . . . .	CA 3 . . . . .	Beatrice
Kidd, Norma Josephine . . . . .	A 1 . . . . .	Beatrice
Kiddoo, Guy Cabbell . . . . .	A 4, L 1 . . . . .	South Omaha
Kieck, William Gehrt . . . . .	E 2 . . . . .	Springfield
Kiesselbach, Theodore Alexander . . . . .	G . . . . .	Lincoln
Kimball, George William . . . . .	Eu . . . . .	Hastings
Kimball, Kent . . . . .	E 1, (S, HSAc) . . . . .	Lincoln
Kimball, Lucy Marie . . . . .	CA 1 . . . . .	Council Bluffs, Ia.
Kimball, Marjorie Perkins . . . . .	A 1 . . . . .	Lincoln
Kimberly, Nellie Content . . . . .	A 4, T 4 . . . . .	Lincoln
King, Annie Laurie . . . . .	Au, (S) . . . . .	Columbus
King, Austin Chubbuck . . . . .	Au . . . . .	Orchard
King, Dexter D . . . . .	M 2 . . . . .	Lincoln
King, Ethel Meda . . . . .	CA 1 . . . . .	Lincoln
King, Lillian Belle . . . . .	CA 1 . . . . .	Hooper
Kingery, Lisle Byron . . . . .	A 1 . . . . .	Tilden
Kinney, Harvey Smith . . . . .	E 3 . . . . .	Woodbine, Ia.
Kinney, Samuel Marks . . . . .	G . . . . .	University Place
Kinscella, Hazel Gertrude . . . . .	Au . . . . .	Lincoln
Kinsman, Claude Dennis . . . . .	E 4 . . . . .	Columbus
Kinsman, Katey Lora . . . . .	A 3, T 3, (FA) . . . . .	Columbus
Kinyon, Kate Pamelia Woodard . . . . .	CA 1 . . . . .	Lincoln
Kiplinger, Ralph Ernest . . . . .	E 4 . . . . .	Holdrege
Kirkpatrick, Ella May . . . . .	A 3, (S) . . . . .	Oconto
Kirkpatrick, Louise Armina . . . . .	CA 2 . . . . .	Ashland
Kirschstein, Irene Bates . . . . .	A 2 . . . . .	Omaha
Kissinger, Ralph Peter . . . . .	CA 2 . . . . .	Fairfield
Kittinger, Mary Alice . . . . .	A 1 . . . . .	Lincoln
Kjeldgaard, Andreas . . . . .	E 2 . . . . .	Lincoln
Kjelson, Albert Victor . . . . .	CA 1 . . . . .	Gothenburg
Kjelson, Astrid Althea . . . . .	CA 2 . . . . .	Gothenburg
Kleihauer, Cleveland . . . . .	G . . . . .	Bethany
Klepser, Fred . . . . .	L 1 . . . . .	Weeping Water
Kline, Howard Esher . . . . .	G . . . . .	University Place
Kline, Philip . . . . .	A 2 . . . . .	Omaha

Klink, Anna Louise	A 1	Elgin
Klinker, Mary Marguerite	A 2, (S)	Lincoln
Klopp, Walter Charles	A 1	Omaha
Kloppel, Henry Raymond	Au.	Leigh
Klossner, Rose Ruth	Au, (S)	Humboldt
Kneeshaw, Gladys Stella	CA 1, A 1, (S)	Lincoln
Knepper, Kathryn Mae	A 2	Lincoln
Knotts, Laura Rebecca	A 2	Sioux City, Ia.
Knowlton, Blanche Gertrude	Au, (S)	Lincoln
Koehler, Donald Anthony	CA 1	Lincoln
Koehler, Henry Irvin	CA 2	Pilger
Kohn, Pauline	A 3, T 3, (S)	Lincoln
Kokjer, Thomas Edgar	CA 1	Clarks
Kolls, Klindt	E 3	Grand Island
Korner, Gertrude Fern	G	Lincoln
Korstian, Clarence Ferdinand	G, CA 4, (S)	Crete
Kotlar, Frank John	M 2	Columbus
Krajicek, Stephen	E 2	Arlington
Kramer, Bertha Nathalia	G, (FA)	Aurora
Kramer, Herman Frederick	E 3	Lincoln
Kratz, Golden Paul	A 1	Bloomfield
Kraus, Edward Joseph	E 3	South Omaha
Krause, Clyde Lauren	A 1	Albion
Krause, Harold Paul	L 1	Albion
Krause, Rose Catherine	A 2	Schuyler
Krisl, Alba A	Au, (S)	Lincoln
Krisl, Mary Ellen	A 2, (S)	Lincoln
Kronegg, Dora Nanita	Au.	Kearney
Kruckenberg, Minnie Edith	G	Lincoln
Krueger, John Fritz	G, (S)	Lincoln
Krueger, Theodore	A 3	Lincoln
Krug, William Jennings	E 4	South Omaha
Krugg, Morton Howard Robert	L 2	Joplin, Mo.
Kruse, Frank Jacob	A 2	Lincoln
Kryger, Ralph Mallory	L 2	Neligh
Kubik, Theodore	A 1	Schuyler
Kuennen, Arnold Christian	CA 4, (S)	Cook
Kuhn, Ada Ruth	A 1	Lincoln
Kuhn, Gladys Frances	A 2	Lincoln
Kunkel, Leslie Lyman	A 1	Lincoln
Kunkel, Margaret Anita	A 4, T 4	Osceola
Kuppinger, Herman E	A 1, (HSAc)	Lincoln
Kuska, Joseph Benjamin	CA 3	Ohioawa
Kyle, Homer Lewis	L 2	Lincoln
Lacey, Lydia Eva	A 3	Lincoln
Ladd, Della	A 3	Albion
Lahners, Thomas, Jr.	A 3, T 3, (2 P 2)	Belvidere
Lahr, Ruth Gretchen	A 1, (HSAc)	Lincoln
Lally, Eleanor Mary	Au, (S)	Lincoln
Lamb, William Harrison	A 3	Washington, D. C.
Lambert, Eva	A 2	Grand Island
Lambert, Leroy Schuyler	E 4	Kearney
Lamson, Pearle Hildreth	A 2, (S)	Orleans
Lamson, Trella June	A 2, (S)	Orleans
Lane, Darrell Thomas	A 3	Seneca
Lane, Fannie Fern	CA 1	Portland, Ore.
Lang, Albert Ray	G, (S)	University Place
Larsen, Antonius Andrew	A 1, (4 yr. Pharmacy)	Lyons
Larson, Albin Victor	E 2	Arapahoe
Larson, Harold S	E 2	Viborg, S. D.
Lathrop, Louis Arthur	CA 2	Swanton, Ohio
Latimer, Homer Barker	G	University Place
Latta, Emery Coleman	CA 1	Tekamah
Laubach, Walter Howard	E 4	Omaha
Laughlin, Joseph Wilson	M 3	Callaway
Laune, Ferris Finley	A 2	Lincoln

## ROSTER OF STUDENTS

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Lawler, John Arthur . . . . .	L 2 . . . . .	Lincoln
Lawrence, Esther Joy . . . . .	A 1, (S) . . . . .	Lincoln
Leahy, William Richard . . . . .	A 1 . . . . .	Lincoln
Leamer, George William . . . . .	A 4, L 1 . . . . .	Dakota City
Leaming, Charlotte Marion . . . . .	A 2 . . . . .	Lincoln
Lee, Bernice Marie . . . . .	A 4, T 4 . . . . .	Shelton
Lee, Jessie Alice . . . . .	G . . . . .	Lincoln
Lee, Kirk Charles . . . . .	CA 1 . . . . .	Fremont
Lee, Mark Harold . . . . .	CA 1 . . . . .	Shelton
Leetham, May Inez . . . . .	A 2 . . . . .	St. Paul
Leffler, Harry Harland . . . . .	Lu . . . . .	Elmwood
Lehew, Robert Milton, Jr. . . . .	A 3 . . . . .	Lincoln
Lehman, Asa Margrave . . . . .	A 3, M 1 . . . . .	Culbertson
Lehman, Clyde William . . . . .	A 3, T 3, (S) . . . . .	Superior
Lehmer, Olive . . . . .	A 1 . . . . .	South Omaha
Lehr, Elmo W. . . . .	A 1 . . . . .	Elgin
Leonard, Earl Renshaw . . . . .	A 2 . . . . .	Rock Valley, Ia.
Leonard, George Kinney . . . . .	E 4 . . . . .	Lincoln
Leonard, Leon Hersey . . . . .	E 1 . . . . .	Neligh
Leopold, Roy A. . . . .	E 1 . . . . .	Trenton
Lerum, Lillian . . . . .	A 2 . . . . .	Plainview
Lester, Claud Frederick . . . . .	G . . . . .	Lincoln
Lester, Elda M . . . . .	Au . . . . .	Lincoln
Letton, William Adam . . . . .	L 1 . . . . .	Lincoln
Lewis, Charles Leslie . . . . .	E 2 . . . . .	Fairfield
Lewis, Eber Brock . . . . .	E 4 . . . . .	Superior
Lewis, Gladys Albertine . . . . .	CA 1 . . . . .	Superior
Lewis, Joseph Franklin . . . . .	Au . . . . .	Lincoln
Lewis, Leland Judson . . . . .	G, (S) . . . . .	Anselmo
Lewis, Roxie Belle . . . . .	A 1 . . . . .	Superior
Lberman, Walter Ernest . . . . .	A 1 . . . . .	Friend
Lichtenwallner, Marjorie . . . . .	A 3, T 3 . . . . .	Dunbar
Lichty, Lester Clyde . . . . .	E 3 . . . . .	Carlton
Liebers, Otto Hugo . . . . .	CA 3 . . . . .	Minden
Liephart, Clyde Merton . . . . .	A 1 . . . . .	Lincoln
Liggett, Mary Elizabeth . . . . .	Au . . . . .	Lincoln
Linch, Leta Blanche . . . . .	A 4, T 4, (S) . . . . .	Lincoln
Lindberg, Emil August . . . . .	E 4 . . . . .	Craig
Lindeberg, Ernest Ludwig . . . . .	Eu, (HSAc) . . . . .	Genoa
Lindley, Edna Ruth . . . . .	A 3, T 3 . . . . .	Omaha
Lindsey, Cornelia Frances . . . . .	A 4, (S) . . . . .	Lincoln
Linger, Earl Albert . . . . .	A 4, M 2 . . . . .	Havelock
Link, George Konrad Karl . . . . .	G . . . . .	Lincoln
Linn, John Lovejoy . . . . .	A 2 . . . . .	Omaha
Lionberger, Earle Lester . . . . .	A 4 . . . . .	Superior
Lipp, Laura Hazel . . . . .	A 1 . . . . .	Pawnee City
Littel, Charles Lester . . . . .	A 4, (Ex) . . . . .	Lincoln
Littlefield, Sarah Jane . . . . .	A 3 . . . . .	Hopkinton, Ia.
Livermore, Guy Ernest . . . . .	A 2, (S) . . . . .	Comstock
Lloyd, Lynn . . . . .	L 2 . . . . .	Omaha
Lloyd, Windsor James . . . . .	A 1 . . . . .	Bradshaw
Lofgren, Gus Adolph . . . . .	E 4 . . . . .	Ponca
Logan, Claudia Marie . . . . .	Au . . . . .	Blue Hill
Logan, Lois Gail . . . . .	A 1, CA 1 . . . . .	Norfolk
Lonam, Vivian Marie Cecelia . . . . .	Au, (S) . . . . .	Lincoln
Long, Esther Emily . . . . .	A 1 . . . . .	Florence
Long, Evangeline . . . . .	A 3 . . . . .	Lincoln
Long, Fern Zelpha . . . . .	A 1 . . . . .	Lincoln
Long, Frank Edward . . . . .	A 2, E 2 . . . . .	Kearney
Long, Margaret Eleanor . . . . .	CA 2 . . . . .	Madison
Long, William Ernest . . . . .	A 1 . . . . .	Kearney
Longman, Annie Laurie . . . . .	A 2 . . . . .	Bethany
Longman, Daisy Olive . . . . .	Au . . . . .	Bethany
Longman, Effie May . . . . .	G . . . . .	Bethany
Longtin, Beatrice Iona . . . . .	Au . . . . .	Beatrice
Lonneker, Adah Marian . . . . .	Au, (S) . . . . .	Madison

Loomis, Gilbert Churchill.....	A 1.....	Omaha
Lord, Carl Jacobs.....	A 1.....	Randolph
Lord, Gladys Malone.....	A 1. (Ex, HS).....	Lincoln
Lorenzen, Elmer Wilhelm.....	A 1.....	Wisner
Louthrop, Grant.....	A 2. (S).....	Blair
Loveland, Edward Hildreth.....	G.....	Norwich, Vt.
Loveland, Lily Steele.....	A 1.....	Lincoln
Lowrie, Jessie Opal.....	G. (S).....	Fairmont
Lowry, Beatrice Genevieve.....	A 1.....	Lincoln
Lowry, Kathryn Marie.....	A 4, T 4. (S).....	South Omaha
Lucas, Olive Ruth.....	A 2.....	Foster
Luckey, Bertha Musson.....	G.....	Lincoln
Lackey, George Paul.....	G.....	Lincoln
Lackey, Henry Carl.....	G.....	Lincoln
Ludden, Arthur Jay.....	L 3.....	Surprise
Ludden, John Ernest.....	L 2.....	Lincoln
Ludi, Belle Lucinda.....	CA 1.....	Wahoo
Ludi, Harry Joshua.....	CA 1.....	Wahoo
Luebs, August.....	E 2.....	Wood River
Lukhart, Cordelia Elizabeth.....	G.....	Norfolk
Lundak, Emmanuel D.....	Au. (S).....	Wakefield
Lute, Carrie Lula.....	A 4.....	Paxton
Lyman, Blanche Margaret.....	A 4.....	Lincoln
Jyman, Richard Forsey.....	E 2.....	Ft. Crook
Lynch, Annie Laurie.....	G.....	Lincoln
Lynch, James Eric.....	A 1.....	Auburn
Lynch, Lindon Lamar.....	E 1.....	Lincoln
Lynch, Mary Alice.....	G.....	Omaha
Lynch, Verne Marquis.....	A 1.....	Auburn
Lyons, Flossie Louise.....	A 4. (S).....	Asylum
Lzicar, George.....	A 1.....	Chadron
McAdams, Minnie Caroline.....	A 2. (S).....	Western
McBath, Verna.....	A 3.....	Witting, Ia.
McBride, Maud Mildred.....	A 1. (S).....	Lincoln
McBrien, Dean Depew.....	A 3. (Ex).....	Lincoln
McBrien, Rufus Orville.....	CA 1.....	Lincoln
McCaffree, Harry Aurelius.....	L 1.....	Scottsbluff
McCandless, Sam Aaron.....	A 1.....	Lincoln
McCarthy, Rose Frances.....	A 1. (S, Ex).....	Wahoo
McCoid, Tress.....	CA 2. T 3.....	Omaha
McComb, Mollie June.....	A 4. (S).....	Wilkinson
McConnell, Frederic Charles.....	L 2.....	Omaha
McConnell, Grace.....	A 1.....	Lincoln
McConnell, William Estill.....	A 4.....	Lincoln
McCorkindale, Isabel Helen.....	A 1.....	Odebolt
McCorkle, Frank.....	E 1.....	Holt, Kans.
McCormick, Leroy.....	L 2.....	Orosi, Calif.
McCullough, Philip Morgan.....	E 1.....	Omaha
McCullough, Roger Shaw.....	A 1, E 1.....	Omaha
McDade, Ruth Marion.....	A 3, T 3.....	University Place
McDonald, Dale Francis.....	A 4. (S).....	York
McDonald, James Patrick.....	L 1.....	Humphrey
McDonald, Ruth Marie.....	A 3.....	Omaha
McDonald, Wallace Brotch.....	Lu.....	Omaha
McGarry, Jean Elizabeth.....	A 4, T 4.....	Lincoln
McGee, Arthur John.....	E 1. (HSAC).....	Lincoln
McGee, Randall E.....	A 4. (S, Ex).....	Syracuse
McGowan, Walter Iva.....	L 1.....	Scottsbluff
McGrath, Wilmer Delavergne.....	A 3, M 1.....	Elsie
McGirk, John Scribner.....	A 1, E 1.....	David City
McHugh, Robert Emmet.....	A 2.....	Lincoln
McIntosh, Grace.....	A 1.....	Lincoln
McKee, Earl Cleveland.....	L 3.....	Lexington
McKee, Mabel Anna.....	A 3.....	Loveland, Colo.
McKee, Marie Louise.....	A 1.....	Aurora
McKeen, Helen Ruth.....	A 1. (S).....	Blair

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Mckelvie, Floss DeArnold.....	Au.....	Lincoln
McKibbin, Dora Belle.....	A 2, (S).....	Lincoln
McKinney, Harold Frederick.....	L 2.....	Omaha
McKinnon, Claire Anna.....	A 4.....	Siloam Springs, Ark.
McLain, Grace Norris.....	A 4, (S, Ex).....	University Place
McLean, Earl.....	G.....	Lincoln
McLennan, Kenneth Wright.....	A 2.....	Lincoln
McMahon, Grace Ellen Marie.....	A 2.....	Blair
McManigell, Cozette.....	Au.....	Lincoln
McMaster, James Lloyd.....	A 1.....	Central City
McNabb, Harold Sanderson.....	E 2.....	Lincoln
McNerney, Leila Mary.....	A 1.....	Lincoln
McNerney, Louise Elizabeth.....	A 3.....	Lincoln
McNichols, Mabel.....	Au.....	O'Neale
McPhee, Clarisse Mary.....	G.....	Lincoln
McPherrin, Maude Wilma.....	A 1.....	Tecumseh
McVeigh, Mabelle Rae.....	G, (S).....	Narfall
MacDougall, Raymond Barrows.....	E 1.....	Lincoln
MacFarlane, Robert Earl.....	A 1.....	Lincoln
Macy, Edwin I.....	CA 1, E 1.....	Norfolk
Mallick, Jessie Uriah.....	A 4, (4 yr. Pharmacy).....	Bloomington
Mallery, Bruce Gordon.....	A 1.....	Alliance
Mallory, Genevieve Agnes.....	CA 1.....	Creighton
Malone, Celia Genevieve.....	A 4, (S).....	Omaha
Malone, Elsie Mildred.....	A 1.....	Lincoln
Malone, Florence.....	Au.....	Lincoln
Malone, Lillian May.....	Au.....	Cortland
Malone, Ruth.....	A 1.....	Lincoln
Malowney, James Robert.....	E 2.....	Wymore
Malsbury, Fay.....	A 3, T 3.....	Lincoln
Mangun, Lloyd Benedict.....	G, (S).....	Leavenworth, Kans.
Mann, George Russell.....	L 1.....	Ord
Mann, Olive Beulah.....	A 3, T 3.....	Chedron
Mansfield, Bertha Maye.....	A 1.....	York
Mantor, Edna Clara.....	G, (Ex).....	Lodge Pole
Manville, Charles Veits.....	Mu.....	Lincoln
Mapes, Donald Durland.....	A 1.....	Norfolk
Marcellus, Byrne Campbell.....	L 1.....	Lincoln
Marcellus, Jay Dolph Donald.....	A 1.....	Crete
Marks, Robert Howard.....	Eu.....	Ohio
Markward, Herbert William.....	CAu.....	Funk
Marohn, Beulah Juliet.....	A 1.....	Lincola
Marohn, Roy Adolph.....	A 1.....	Lincoln
Marr, Frank Sigel.....	A 1.....	Utica
Marrow, Herbert J.....	E 1.....	Lincoln
Marsh, Harry Vernon.....	A 3.....	University Place
Marshall, Mabel Blanche.....	A 1.....	Arlington
Marshall, Roy Edgar.....	CA 3.....	Lincoln
Marshall, Thomas Leonard.....	A 1.....	Omaha
Martin, Alice Zota.....	Au.....	Lincoln
Martin, Charles J.....	E 1, (S).....	Table Rock
Martin, James Russell Ray.....	E 4.....	Holdrege
Martin, John Camden, Jr.....	A 2.....	Central City
Martin, Leslie Edson.....	A 3, T 2, (S).....	Shelton
Martin, Minnie Alice.....	Au, (S).....	Fairbury
Martin, Otis.....	A 1.....	Central City
Martins, Robert Herman.....	A 3.....	Enid, Okla.
Mason, Albert Frank.....	E 1.....	Fremont
Mason, Bessie Pearl.....	A 3, M 1.....	Beecher City
Mason, Cecil Marie.....	A 1.....	Lincoln
Mason, Luella Kezia.....	Au.....	Montrose
Mastin, Addie.....	A 2, (S).....	Oxford
Mastin, Guy Noble.....	E 1.....	Albion
Matheny, Lenora.....	A 1, (S, Ex).....	Alva
Matheson, Earl Alexander.....	E 2.....	Stanton
Mathews, Elsie Forest.....	A 4.....	Lincoln

Mathews, Jennie Elizabeth.....	A 1.....	Scottsbluff
Mathewson, Louise .....	Au, (S).....	Lincoln
Matrau, Agnes .....	A 4.....	Norfolk
Matson, Enor K.....	L 2.....	Newman Grove
Matson, June Elizabeth.....	A 1, (S).....	Bertrand
Matson, Mabel Victoria.....	Au, (S).....	Bertrand
Matson, Ruth Rebecca.....	A 1, (S).....	Bertrand
Mattill, Andrew Jacob.....	G, (S).....	Falls City
Mattison, Alice Amanda.....	A 3, (S).....	Lincoln
Maxfield, Don Deal.....	CA 2.....	Lincoln
Maxwell, James Taliaferro.....	M 4.....	Omaha
May, Albert E.....	Au.....	York
May, Arthur Arnold.....	A 2.....	Gothenburg
Mayes, Autumn Catherine.....	A 1.....	Lusk, Wyo.
Mayland, Dorothy Sophie.....	G.....	Seward
Mayland, Helen Belle.....	CA 1.....	Norfolk
* Maryland, William Foster.....	A 3, M 1.....	Seward
Mayle, Fred Irvin.....	E 2.....	Blair
Mead, George Francisco.....	Au, (S).....	Oakland
Mead, John Frank.....	L 2.....	Omaha
Mears, Louise Wilhelmina.....	G.....	Peru
Meeker, David Franklin.....	A 2.....	Imperial
Meier, Louis Francis.....	A 1.....	Lincoln
Melcher, Ida Helena.....	Au, (Ex).....	Omaha
Melick, Bertha Lucile.....	A 4, T 4.....	Bethany
Melick, Florence Hazel.....	A 2.....	Bethany
Meline, Agnes Sophia.....	A 3, T 3.....	Colon
Melville, James Alfred.....	A 2.....	Sterling
Meradith, Madge Pauline.....	A 1.....	York
Merchant, Temple Orvel.....	Lu.....	Adams
Meredith, Leonard John.....	A 1.....	Lawrence
Meredith, Louise .....	A 3, T 3, (S).....	Lincoln
Meredith, Mamie .....	A 4, (S).....	Lincoln
Merriam, Faye Mills.....	E 1.....	Seward
Merrick, Homer Curtis.....	CA 2.....	Adams
Merrill, Lena .....	Au.....	Lincoln
Merryweather, Elmer Charles.....	E 3.....	Valley
Mesronian, Herbert Newton.....	A 2.....	Lincoln
Metcalf, Mabel Clare.....	G.....	Broken Bow
Mecalfe, Richard Lee, Jr.....	A 1.....	Lincoln
Metcalf, William Buehler.....	L 2.....	Lincoln
Metzger, Pattie Mary.....	CA 4.....	Cedar Creek
Meyer, Carl Augustus.....	M 1, (S).....	University Place
Meyer, Carl Tszuchuck.....	E 2.....	Omaha
Meyer, Fred William.....	A 3.....	Platte Center
Meyer, Louis Logan.....	E 1.....	Fairbury
Meyer, Susa .....	Au.....	University Place
Mevers, Peter Thomas.....	CA 2.....	Hendley
Michael, Emma Marie.....	A 1.....	Wisner
Miles, Erwin Lawrence.....	E 1.....	Blair
Miles, Frank C.....	G, A 4, (S).....	Lynch
Miles, Seth Herbert.....	A 4, M 2, (S).....	College View
Miller, Clarence Edison.....	A 3, T 3.....	Arapahoe
Miller, Donald Walters.....	A 3.....	Lincoln
Miller, Edna Emma.....	A 3, T 3, (HSAe).....	Rising City
Miller, Effie Irene.....	A 3.....	Kearney
Miller, Frances Edith.....	A 1, (S).....	Lincoln
Miller, Glenn Harold.....	A 1.....	Harlan, Ia.
Miller, Harold Pearl.....	E 2.....	St. Joseph, Mo.
Miller, Louise .....	G.....	Lincoln
Miller, May Emma Agee.....	Au.....	Beaver Crossing
Miller, May Manrine.....	A 4, T 4.....	Lincoln
Miller, Otto William.....	L 2.....	Atlantic, Ia.
Miller, Roland John.....	E 1.....	Ravenna

\* Deceased.

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Miller, Talmage Eugene	CA 4, (S)	Ashland
Mills, Emma Almina	CAu	Osceola
Mills, Hugh Lorrain	A 1	Omaha
Minakami, A. Kunitada	E 1	Uyeda, Japan
Miskell, Berna Ann	G	Lincoln
Miskell, Clara May	A 3	Lincoln
Mitchell, Claude William	G, (2 P 1)	Lincoln
Mitchell, Helene Schwab	A 4, (S, FA)	Lincoln
Mitchell, Joseph Clark	G	Lincoln
Mizera, Frank Harold	L 3, (Ex)	Morse Bluff
Mockett, Kathryn Marie	A 3, T 3	Lincoln
Moffett, Beatrice	A 4, (S)	Lincoln
Monette, Adele Blanche	A 3, T 3	Stella
Monfore, Fred Harold	A 2	Lincoln
Monfort, Laura Belle	Au, (Ex)	Randolph
Monroe, Ernest Franklin	G, (S)	Shelton
Monroe, Pearl Anna	A 1	Lincoln
Montgomery, Earl Clifton	A 1	Omaha
Montgomery, Glenn Edgerton	E 3	Lincoln
Montgomery, Igerna	A 3, T 3	Polk
Moode, Walter Chafey	M 4	Omaha
Moody, Elizabeth Ellen	Au, (S)	Ansley
Moomaw, Leon A.	Au, (Ex)	Bayard
Moon, Charles Franklin	A 3, M 2	Ashland
Moore, Avilda Downing	A 1	Omaha
Moore, Charles Royal	Au, (S)	Lincoln
Moore, Jessie Ruth	G	Lincoln
Moore, Roy Walker	E 3	Seward
Moore, Texa Laura	Au	Holdrege
Moorman, Basil Jones	CA 2	Lincoln
Morgan, Bertha Alice	A 2	Hamburg, Ia.
Morgan, Elizabeth Alice	A 1	Lincoln
Morgan, Janice Elizabeth	A 4	Lincoln
Morgan, Jennie Amelia	G	University Place
Morgan, Kathryn Jennie	Au	Lincoln
Morley, Bert Elsworth	E 3	St. Paul
Morning, Mildred Martha	A 1	Lincoln
Morris, Minnie Belle	A 2	St. Paul
Morrison, Ella King	A 3	Lincoln
Morrison, Estelle Rees	G	Lincoln
Morrison, Harold Fleming	M 1	Lincoln
Morrison, Harold Meredith	E 2	Norfolk
Morrison, Harvey Arch.	G	College View
Morrison, James Victor	A 2	Omaha
Morrison, Loyd Samuel	A 1	Springfield
Morse, Harold McKinley	L 1	Clarks
Mortimer, Agnes Ogilvie	Au, (S)	Lincoln
Mortimer, Margaret Craig	Au, (S)	Lincoln
Mortlock, Harry Crawford	CA 1	Lincoln
Morton, William Henry Stephenson	G, (S)	Plymouth
Moseley, Ralph Stuart	L 3	Lincoln
Moseley, Thomas Wesley	CA 4	Lincoln
Moseley, Virginia	A 1	Lincoln
Moser, Reuben Allyn	A 4, M 2	Omaha
Moss, Harold John	A 1	Ashland
Mossman, Gladys Eloise	A 2	Lincoln
Mottinger, Charles Wesley	A 3, (S)	University Place
Mowry, Cleo Jesse	E 4	Geneva
Moyer, John Walter	Eu	Lincoln
Moyer, Torrence Calvin	G, (S)	Lincoln
Mueller, Emma Gertrude	Au, (Ex)	Syracuse
Muir, Sarah Theodosia	G	Lincoln
Mullen, John Clancy	L 3	O'Neill
Mulligan, Harold Rowe	A 3	Beatrice
Mullin, Lillie May	Au, (S)	Crete
Munday, Frank John	L 3, (S)	Edison

Munger, Alfred Case.....	L 1.....	Lincoln
Munger, Arbor Day.....	A 3, M 1, (S).....	Lincoln
Munger, Ruth .....	A 4, T 4.....	Lincoln
Munn, George Alvin.....	A 3.....	Ord
Munson, Albert Russell.....	A 1.....	Aurora
Munson, Goldie .....	A 3.....	Aurora
Murphy, Eleanor Lucile.....	CA 2.....	Homer
Murphy, Roland Edison.....	E 1.....	University Place
Murtey, Aurel May.....	A 2.....	Lincoln
Murtey, Mabel .....	A 1.....	Wheeler Water
Mutz, Eunice Ella.....	CA 1.....	Lincoln
Myers, Charles Benjamin.....	E 1.....	York
Myers, Eda Bernice.....	G.....	Lincoln
Myers, Lloyd .....	E 2.....	Ft. Crook
Myers, Lottie Kate.....	Au, (Ex).....	Hastings
Nagl, Carl Ferdinand Julius.....	E 2.....	Omaha
Nason, Florence Barney.....	CA 2.....	Omaha
Neal, Emma .....	A 1.....	Lincoln
Neal, Irene Sterling.....	A 2.....	Kansas City, Mo.
Neal, John Donald.....	A 2.....	Kansas City, Mo.
Neal, Lulu .....	A 2, (S).....	Lincoln
Neale, Edith Louise.....	A 2.....	Ft. Calhoun
Neff, Aletta .....	CA 2, (S).....	Pekoria, Ill.
Negley, Noel Ardis.....	A 3, T 3.....	Ansley
Neligh, Phyllis Readinger.....	A 2.....	West Point
Nelson, Albert Leonard.....	Eu.....	Omaha
Nelson, Arthur Ealton.....	CA 4, (S).....	Harlan, Ia.
Nelson, Clara Jeanette.....	Au.....	Oakland
Nelson, Enoch Wesley.....	CA 3.....	Lincoln
Nelson, Erma Marie.....	A 1.....	Nebraska City
Nelson, Herbert John.....	A 1.....	Genoa
Nelson, James Carlton.....	G, (S).....	Marshalltown, Ia.
Nelson, Leon Miller.....	CA 2.....	Omaha
Nelson, Nora Johanna.....	A 2.....	Omaha
Nelson, Sadie Mae.....	A 1.....	Omaha
Nelson, William Albert.....	E 2.....	Lincoln
Newman, Allen Thurman.....	A 4.....	Hebron
Newman, Everett Raymond.....	A 3.....	Laurel
Newman, Minnie Mae.....	G, (S).....	Lincoln
Newmyer, Clay Everett.....	CA 1.....	Lyons
Newton, Glen Irving.....	E 1.....	Cody, Wyo.
Nicholls, Carroll Clifford.....	E 2.....	Kenesaw
Nicholls, Charles Leslie.....	G.....	Lincoln
Nichols, Loyd Alvin.....	A 3.....	Omaha
Nichols, Theo B.....	CA 3.....	Lincoln
Nicholson, Robert Vincent.....	Mu.....	Wisner
Nickell, Ruth Medora.....	A 4.....	Beatrice
Nickey, Joseph Galen.....	A 1.....	Kearney
Niehaus, Frederick Wilhelm.....	A 2, CA 2.....	Lincoln
Nigh, George Washington.....	E 2.....	Bethany
Noble, Eldon Alvin.....	E 2.....	Lincoln
Noble, Mary Charlotte.....	Au.....	Lincoln
Noelting, William Henry.....	E 4.....	Nebraska City
Nolan, Frances .....	A 2.....	Alliance
Noll, William Clarence.....	G, (S).....	Fairmont
Nombalaïs, Florence Amelia.....	A 3.....	Lincoln
Noone, John Joseph.....	L 1.....	Omaha
Northrup, Louise .....	A 2.....	Omaha
Northrup, Ralph Henry.....	A 1.....	Omaha
Norton, Leland Davis.....	E 1.....	Lincoln
Noyes, Bessie .....	G.....	Lincoln
von Nusbaum, Erich.....	G.....	Eagle
Nye, Catherine Agnes.....	A 3.....	Kearney
Nye, Florence Elizabeth.....	A 4, (S).....	Pawnee City
Nyrop, Dora Gine.....	A 3, T 3.....	Elgin

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Oak, Emma Josephine.....	A 4, T 4.....	Lincoln
O'Brien, Minnie Josephine.....	CA 2.....	Atkinson
O'Brien, Ruth.....	A 2.....	Lincoln
O'Connor, Mary.....	Au.....	Lincoln
O'Connor, Edwin.....	L 1.....	Ft. Des Moines, Ia.
Odell, Ruth.....	A 2.....	Omaha
Oest, William Charles.....	E 4.....	Lincoln
Ogden, Johanna Frances.....	A 2.....	Genoa
O'Hanlon, Andrew Reed.....	A 2.....	Blair
Ohsen, Edith Violet.....	CA 4, T 4.....	Oakland
Ohsen, Edwin John.....	E 1.....	Loup City
Ohsen, Flora Adaline.....	A 2.....	Loup City
Ohsen, Herman Arthur.....	E 2.....	Loup City
Okey, John Edgar.....	L 3.....	Lincoln
O'Kief, Bernice Agatha.....	Au.....	Lincoln
Oliver, Jarrett.....	E 3.....	Randolph
Ollis, Ethel Mary.....	CA 1.....	Ord
Olmstead, Lewis Bertie.....	G, (S).....	Lincoln
Olson, David Segard.....	CA 1.....	Genoa
Olson, Harry Theodore.....	Mu.....	Clarkfield, Minn.
O'Neil, Frank Bernard.....	E 3.....	Jackson
Opie, Harold William.....	Au, (S).....	Lincoln
Orlofsky, Sylvia.....	A 2.....	Lincoln
O'Rourke, Edward.....	E 4.....	McCook
Orr, Ralph W.....	A 2.....	Lincoln
Orvis, Harriet.....	M 1.....	Yankton, S. D.
Osborn, Barbara Christine.....	A 2, (2 P 1).....	Lincoln
Osborne, Harold Allen.....	A 4.....	Genoa
Osterhout, Fay.....	A 4.....	David City
O'Sullivan, Margaret Josephine.....	A 2.....	Lincoln
Otis, Birdie Lavina.....	CA 1.....	Trenton
Ough, John Clam, Jr.....	Mu.....	Benkleman
Outcault, Sara Catherine.....	CA 1.....	Lincoln
Outhouse, Winnie Prather.....	A 2.....	Loup City
Overman, Carl Martin.....	E 4.....	Lincoln
Overstreet, Milton Lowrey.....	E 2.....	Lincoln
Owen, Donald Robert.....	CA 1.....	Omaha
Owen, Hubert Keyes.....	CA 2.....	Omaha
Owen, Lewis Rees.....	E 3.....	Lincoln
Packard, Alice Lydia.....	A 3, (S).....	Lincoln
Paddock, May Grace.....	A 3, T 3.....	Lincoln
Pade, Emma Madeline.....	A 2.....	McCook
Pagels, Anna Charlotte.....	A 4, T 4.....	Beatrice
Pagels, Florence Mabel.....	A 2.....	Beatrice
Paine, Charles Kenneth.....	E 3.....	Lincoln
Paine, Myron Arthur.....	A 1, (4 yr. Pharmacy).....	Lyons
Palleesen, Viggo Walmar.....	A 1.....	College View
Palmer, Ella May.....	Au.....	Fairmont
Palmer, Irwin Ross.....	A 4.....	Fairfield
Palmer, Lawrence John.....	CA 1.....	Genoa
Park, Durward Belmont.....	A 2.....	Randolph
Park, Young M.....	A 4.....	Lincoln
Parker, Lee Temple.....	E 2.....	Wilsonville
Parker, Mary Abigail.....	A 3, (Ex, S).....	Pierce
Parker, Persis Ruth.....	G, (S).....	Julesburg, Colo.
Parkinson, Robert McKee.....	E 1.....	Omaha
Parmelee, Alfred Edwin.....	A 4, (S).....	Lincoln
Parmelee, Harriett Meradith.....	A 1.....	Omaha
Parminter, Hugh Ernest.....	G, (S).....	Bethany
Parrish, Edith Olive.....	A 3.....	Bedford, Ia.
Parrott, Stella Viola.....	A 3.....	Albion
Parsons, Susanna Ring.....	A 2.....	Lincoln
Patrick, Claude Bartlett.....	CA 3, (FA).....	Lincoln
Patterson, Marguerite Elizabeth.....	A 3, T 3.....	Rushville
Pattison, Warren Berry.....	G, (S).....	Lincoln
Patton, Mildred Merle.....	A 4, (S).....	Lincoln

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Paul, Blanche Justine.....	Au.....	Lincoln
Paustian, Franz Henry.....	E 1.....	Omaha
Pearse, Henry Bennett.....	E 4.....	Genoa
Pearse, Lillian Carrie.....	A 1.....	Genoa
Pearson, Clara Helen.....	A 4, T 4.....	Wilcox
Pearson, Fred Reid.....	E 1.....	Lincoln
Pearson, James Thomas Morley.....	E 2.....	Schuyler
Peck, Helene Dresser.....	A 2.....	St. Paul, Minn.
Peck, Rose C.....	CAu.....	Lincoln
Peden, A. Howard.....	E 2.....	Oakland
Peebles, Nellie Elizabeth.....	A 1.....	Blair
Peery, Charles Benjamin.....	A 3.....	Auburn
Pegler, Ethel Artha.....	A 3, T 3.....	Lincoln
Peirce, Lewis Snow.....	A 2.....	Kearney
Peitersen, Arne Kristopher.....	G, (S).....	Elkhorn, Ia.
Pellatz, Orville L.....	A 1.....	Ceresco
Percy, Otto Warren.....	L 2.....	Crawford
Perkins, Frank Sutfin.....	A 1.....	Fremont
Perrin, Hazel.....	A 3.....	Lincoln
Perrin, Otto K.....	A 2.....	Sargent
Perry, Claibourne Gordon.....	L 1.....	Lincoln
Persinger, Mary Eudora.....	G.....	Lincoln
Perusse, Francis Joseph.....	Au, (4 yr. Pharmacy).....	Lincoln
Peters, Frances Lucretia.....	A 1.....	Lincoln
Petersen, Alvin Ardeen.....	E 1.....	Lyons
Petersen, Niels Frederick.....	G, (S).....	Plainview
Petersen, Paul C.....	A 1.....	Minden
Peterson, Emma Wilhelmina.....	CA 2, (S).....	Wahoo
Peterson, Oscar Theodore.....	E 2.....	Beatrice
Peterson, Theodore Carl.....	G.....	Carter
Pettie, Warren Russell.....	E 2.....	Hickman
Pettis, Edward Fitch.....	CA 1.....	Lincoln
Pettis, Marion Hebard.....	A 2.....	Lincoln
Peyton, Wade Hampton.....	A 1, (S).....	Lincoln
Pfeiffer, Ernst.....	Au, (S).....	Princeton
Pfeiffer, Laura Belle.....	G.....	Kadoka, S. D.
Phares, Ernest Henry.....	L 3.....	Red Cloud
Phares, Lewis Sheridan.....	E 2.....	Red Cloud
Phillips, Arlene Buchan.....	G.....	Aurora
Phillips, Clark L.....	M 4.....	Yutan
Phillips, Cyrus Grammer.....	A 3.....	Aurora
Phillips, Gayle Marie.....	A 1.....	Henderson, Ia.
Phillips, Madeleine Frances.....	A 1.....	Superior
Phillips, Mary Hathaway.....	Au, (S).....	Deadwood, S. D.
Phillips, Richard Allison.....	G, CA 4.....	Lincoln
Pier, Harold Brockway.....	CA 2.....	Lincoln
Pierce, Alma.....	Au.....	Lincoln
Pierce, Harriet Mae.....	Au.....	Lincoln
Pierce Orville Hugh.....	A 4, (S).....	Lincoln
Pike, James Edward.....	E 4.....	Strombsburg
Pilcher, Camille Hortense.....	A 1.....	Lincoln
Pinckney, Charles Edward.....	M 2.....	University Place
Piper, Mildred Olive.....	A 3, T 3.....	Lyons
Pitts, Donald H.....	A 1.....	Omaha
Plehn, Wallace Gehman.....	E 3.....	Scottsbluff
Plumb, Henry Hammond.....	E 4.....	Lincoln
Plybon, Walter.....	G, (S).....	University Place
Poitevin, Marie Adelaide.....	CAu.....	Norden
Pohlemus, Carrie.....	A 1, (HSAc).....	Holdrege
Polk, Gilbert Cameron.....	E 3.....	Louisville
Polk, John Lindsay.....	A 1.....	Louisville
Pollard, William.....	E 1.....	Schuyler
Pollock, George Guy.....	CAu.....	Fairmont
Pomerene, Joel DeWitt.....	L 3.....	Lincoln
Pont, Ervine Emery.....	A 3.....	Stanton
Pool, Ella B.....	Au.....	Lincoln

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Pool, Eva Eugenia.....	A 2.....	Lincoln
Pope, Elizabeth B.....	A 3, T 3.....	Lincoln
Pope, Jessie Pearle.....	CA 3, T 3.....	McCook
Pope, Mabel Maud.....	A 3, T 3.....	Red Cloud
Pope, Mildred Rebecca.....	A 3, T 3.....	Lincoln
Porter, Grace.....	CA 1.....	Lincoln
Porter, Ruth Zeola.....	A 1.....	Scribner
Posey, John Royal.....	CA 2, A 2.....	University Place
Posson, Rutherford Jay.....	CA 1.....	Eureka
Potter, Herbert McPheeley.....	L 2.....	Lincoln
Potts, John Beekman.....	M <i>cum laude</i> .....	Omaha
Potts, Madge J.....	M 2.....	Broken Bow
Powell, Earl Loren.....	Lu.....	Smithfield
Powell, Effie.....	CAu, (SA 3).....	Lincoln
Powell, Louise Cutts.....	A 3.....	Omaha
Powell, Ward Hughes.....	M 3.....	Overton
Power, John Franklin.....	L 3, A 4.....	Ponca
Power, Julia Agnes.....	A 2.....	Ponca
Power, Walter Robert.....	A 4, (S).....	Ponca
Pratt, Harlan Allen.....	E 3.....	Lincoln
Pratt, Laura Josephine.....	A 2.....	Lincoln
Prewitt, Elsie Pearl.....	Au, (Ex).....	Seward
Price, Ruth Amelia.....	G, (S).....	Hastings
Priesner, Wilhelmine Fredericka.....	Au.....	Lincoln
Priest, John Maxfield.....	L 2.....	University Place
Prince, Harold Aubrey.....	A 3.....	Grand Island
Proper, Winona Orinda.....	Au, (Ex).....	Nebraska City
Proud, George Curtis.....	A 2.....	Holbrook
Ptacek, Eva Caroline.....	A 4, T 4.....	David City
Puffer, Lewis Morgan.....	G.....	Lincoln
Pugsley, Charles William.....	G.....	Lincoln
Pugh, Dawnie Dale.....	A 2.....	Lincoln
Purdy, Leonard N.....	E 2.....	Beatrice
Purinton, Ethel Jane.....	A 4.....	Wilcox
Putnam, Girard Porter, Jr.....	L 1.....	Lincoln
Putnam, John Jacob.....	G.....	Gibbon
Putney, Frederick Wallington.....	A 1.....	Lincoln
Putney, Lucy Boomer.....	Au, (S).....	Lincoln
Putney, Nelie Ada.....	G, (S).....	Lincoln
Pyrtle, Emma Ruth.....	G.....	Lincoln
Racely, George Andrew.....	A 2.....	Pender
Radcliffe, Clayton Samuel.....	L 2.....	Sidney
Radke, Franz Christopher.....	A 2.....	Wynot
Randall, Edna May.....	A 4, T 4.....	Oberlin, Kans.
Randall, Helen Elizabeth.....	A 1.....	Lincoln
Randall, William Leslie.....	L 2.....	Omaha
Randolph, Ruth.....	A 3, (S).....	Omaha
Rands, Julia Frances.....	Au, (HSAc).....	Lincoln
Rands, Robert Delafield.....	CA 3.....	Lincoln
Rands, Sarah Jane.....	Au, (S).....	Lincoln
Range, Amelia Katharine.....	A 2, (S).....	Lincoln
Range, Bertha Emma.....	A 4.....	Lincoln
Range, Margaret Grace.....	Au.....	Lincoln
Rankin, Clara Le Anna.....	A 1.....	McCook
Rankin, Rexford Charles.....	L 3.....	Havelock
Ratcliff, John Anderson.....	CA 4.....	Lincoln
Ratke, Bertha .....	CA 1.....	Glenwood, Ia.
Rau, Clyde Vivian.....	A 2.....	Lincoln
Ray, John Edward.....	L 1.....	Geneva
Rayburn, Nettie Leota.....	A 1, (S).....	Bertrand
Raymond, Anan Richard.....	L 2.....	Norfolk
Raymond, Dorothy.....	A 1.....	Lincoln
Raymond, Hugh .....	CA 2.....	Norfolk
Reavis, David Dorrington, Jr.....	A 2.....	Falls City
Reavis, Ruth .....	A 1.....	Falls City
Reavis, Sarah Grace.....	A 1.....	Falls City

Reddish, Howard Earl.....	A 1.....	Alliance
Reed, Albert Alison.....	G.....	Lincoln
Reed, Etta .....	Au, (S).....	Milford
Reed, Frank John.....	E 1.....	Milford
Reed, Guy Euclid.....	L 1.....	Lincoln
Reed, Isa Dolores.....	G, (S).....	Lincoln
Reed, Merril Vergil.....	A 2, (S).....	Lincoln
Reeder, George Samuel.....	L 1.....	Columbus
Reeder, Lucile Haywood.....	CA 2.....	Columbus
Reel, John Walter.....	CA 1.....	Omaha
Reese, Herbert Stockton.....	A 1.....	Randolph
Reese, Sydney Ober, Jr.....	A 3, M 1, (S).....	Randolph
Reichenbach, Marie Hatfield.....	Au.....	Lincoln
Reimer, William.....	A 3.....	Bartley
Rein, Clifford Louis.....	A 3.....	Loup City
Reinsch, Frank Herman.....	G.....	Lincoln
Reinsch, Harry Orville.....	A 1.....	Crofton
Reinsch, Letta Chappell.....	A 3.....	Lincoln
Relf, Josiah Frank.....	E 4.....	Havelock
Remy, Harriet Elizabeth.....	Au, (S).....	Utica
Reusch, Julia Elizabeth Petronella.....	Au.....	Lincoln
Reynolds, Clarence Clarke.....	Au.....	Lincoln
Reynolds, Emmett Lee.....	A 1.....	Bloomington
Reynolds, Loran Marion.....	E 2.....	David City
Rhodes, Leroy .....	E 2.....	Creighton
Rice, John Benjamin.....	CA 1.....	Norfolk
Rice, Louise Bessey.....	A 2.....	South Omaha
Rice, Robert Enos Benjamin.....	A 4.....	Central City
Rich, Alvin Ralph.....	E 3.....	West Point
Richards, John Lowrie.....	A 1.....	Hebron
Richards, Zepha Edith.....	A 1.....	Ashland
Richey, Bernice.....	A 1.....	Lincoln
Richey, Harry Wyatt.....	CAu.....	Omaha
Riesland, Clara May.....	A 1.....	Lincoln
Rigdon Harry Pryor.....	CA 1, (Ex).....	Fairbury
Riggert, Leonard Otto.....	A 1.....	Norfolk
Riggs, James Herbert.....	E 1.....	Waterloo
Riley, Wilbur Kirk.....	A 2.....	Wisner
Rinehart, Ruth .....	A 3.....	Omaha
Rippey, John Raymond.....	E 4.....	Lincoln
Ritchie, Mabel Anna.....	A 2.....	North Bend
Rivett, Paul Sheldon.....	A 4.....	Lincoln
Roach, Bertha Alice.....	A 4, T 4, (S).....	Lincoln
Robb, Florence Ethel.....	A 4.....	Tecumseh
Robbins, Edyth Henrietta.....	A 1.....	Lincoln
Robbins, Mary Ethel.....	A 3.....	Lincoln
Robbins, Wilfrid John.....	A 1.....	Lincoln
Roberts, Bessie Mabel.....	A 4, (S).....	O'Neill
Roberts, Edith Grace.....	CAu, (S).....	Bayard
Roberts, Eva Alice.....	A 3.....	Peoria, Ill.
Roberts, Paul Henley.....	CA 2.....	Maxwell
Robertson, Bess .....	Au, (S).....	Lincoln
Robertson, Eva Margaret.....	CAu.....	Madison
Robertson, Lorn Cleveland.....	CA 3.....	Lincoln
Robertson, Marie Magdelen.....	A 1.....	Plattsmouth
Robey, Ora Gertrude.....	Au.....	Rising City
Robinson, Gale George.....	E 2.....	Lincoln
Robinson, Hazel Bell.....	A 1.....	Hastings
Robinson, Josephine Sara.....	Au.....	Lincoln
Robinson, Lawrence Rosewell.....	A 2.....	Waterloo
Rocke, Joseph William.....	E 2.....	Atkinson
Rockie, Will Allen.....	CA 2.....	Fremont
Rodman, Hettie .....	Au.....	Blair
Rodman, James Albert.....	L 2.....	Leafdale
Rodstrom, Lawrence Benjamin.....	A 1.....	Holdrege
Roen, Paul Brandt.....	A 4, M 2, (S).....	Columbus

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Rogers, Bessie Eleanor.....	A 2.....	Randolph
Rogers, David Miles.....	A 4, L 1.....	Randolph
Rogers, Edward Alfred.....	A 2.....	Lincoln
Rohde, Carl George.....	A 2.....	Columbus
Rohn, John Fred.....	L 3.....	Pierce
Rohrbough, Merrill Curtis.....	A 2.....	Omaha
Rohwer, Carl.....	E 4.....	Ft. Calhoun
Rohwer, Clara Catherine.....	A 2.....	Ft. Calhoun
Rokahr, Mary Ann.....	A 2.....	Lincoln
Roland, Maud.....	Au.....	Bethany
Rolofson, Pearl.....	A 2.....	Lincoln
Romans, Warren Bertie.....	CA 2.....	Omaha
Romer, Peter Kofod.....	A 3, (Ex).....	Bronson, Ia.
Ronin, Mary.....	Au, (S).....	Aurora
Ronne, Jesse Martin.....	E 1, (HSAc).....	Weeping Water
Root, Alice Evelyn.....	A 3, T 3, (S).....	Lincoln
Root, Elmer Alpha.....	E 4.....	Lincoln
Rosenbaum, Eva.....	A 2.....	Harvard
Rosenbaum, Harold Alvin.....	A 3, M 1.....	Harvard
Ross, Clinton Thomas.....	A 2.....	Lincoln
Ross, Ralph Parson.....	A 1, E 1.....	David City
Ross, William Lytle, Jr.....	A 2.....	Omaha
Rosser, Harry Jay.....	L 2.....	Arapahoe
Rost, Clayton Ord.....	G.....	Page
Rough, Emily Violet.....	Au, (S).....	Weeping Water
Rouse, Mabel Margaret Augusta.....	Au, (S).....	Alda
Rousey, Alva Linton.....	Mu.....	Grand Island
Rubendall, Ward Matter.....	A 4.....	Alliance
Ruby, Glen.....	E 2.....	Lincoln
Rudat, Dorothy Marguerite.....	A 1.....	Norfolk
Rudd, Leslie Reynolds.....	E 2.....	Ong
Runge, Lulu Lillian.....	G.....	Madison, Wis.
Runsteen, Anna Christina.....	A 2.....	Stromsburg
Rupert, Everett Henry.....	Au.....	University Place
Rupert, Walter James.....	CA 3.....	Lincoln
Rush, Florence Frances.....	A 4, (S).....	Omaha
Rush, Harry Ernest.....	A 2.....	Rushville
Rush, Weaver Aldus.....	M 4.....	Malvern, Ia.
Russell, Agnes Cornelia.....	A 3.....	Omaha
Russell, Opal A.....	A 1, (S).....	Alliance
Russell, Richard Allen.....	A 4.....	Lincoln
Rutledge, Ida Luella.....	G, (S).....	Lincoln
Ruzicka, Joseph Edward.....	Mu.....	Geneva
Ryan, Beth Symphrose.....	A 3.....	Lincoln
Ryan, Grace.....	CA 4, T 4.....	Neligh
Rymer, Harriet Missouri.....	A 4, T 4, (S).....	Bethany
Sackett, Loy Earl.....	A 4.....	Beatrice
Safarik, Lumir Robert.....	A 2.....	Schuyler
Safford, Helen Martha.....	A 3, T 3.....	Lincoln
Sage, Earl Cuddington.....	A 2.....	South Omaha
Salisbury, Frederick Scott.....	A 1.....	Broken Bow
Salisbury, Grace Murray.....	A 4, (S).....	Lincoln
Sall, Minnie De Ette.....	A 2, (S).....	Holdrege
Samoff, Michael Michael.....	CAu.....	Lincoln
Sams, Ralph M.....	L 2.....	Indianola
Samuelson, Agnes Matilda.....	A 1.....	Shenandoah, Ia.
Samuelson, Charles Godfrey.....	A 1.....	Milford
Samuelson, Earl Newton.....	CA 1.....	York
Samuelson, Ellen M.....	A 2.....	Shenandoah, Ia.
Samuelson, Leon William.....	A 1.....	Hildreth
Sanborn, Clayton Clifford.....	A 1.....	Gretna
Sanborn, Verda Leota.....	CA 2, (Ex).....	Gretna
Sanborne, Sarah Minier.....	G, (S).....	Omaha
Sanders, Lena Leona.....	Au.....	Stockville
Sandusky, Ella May.....	A 2, (S).....	Tecumseh
Sandy, Grant Life.....	CA 1.....	Gretna

Sandy, Pink William	CA 2	Gretna
Sanford, Josephine M.	Au	Lincoln
Sanmann, Louis Frederick	A 2	Diller
Sasek, Ema	Au	Wilber
Sato, Nisa Faulkner	E 1	Nagoya, Japan
Saul, Anne Hope	Au, (S)	Superior
Saunders, Thad E.	L 1	Beatrice
Savage, Howard Anthony	A 1	Atwood, Kans.
Savage, Lottie Luella	A 2	Atwood, Kans.
Sawyer, Helen Agatha	A 3	Lincoln
Scarborough, Ray James	G	University Place
Schachterle, William	Au, (S)	Haxtum, Colo.
Schafer, Frank Oliver	E 1, (HSAc)	Bruning
Schamp, Miriam Anna	Au, (S)	Goehner
Schank, George	CA 1, A 1	Clarks
Schank, Harry Edward	E 3	Clarks
Schaper, William Chris	L 1	Mason City
Schembeck, Isaac S.	A 1	Beatrice
Schiefelbein, Ernest Simon	L 2	Ithaca
Schinck, Dominic Charles	E 3	Tilden
Schllichtemier, Omer Frederick	CA 2	Nehawka
Schlueter, Raymond Theodore	A 2	Lincoln
Schmale, Freda Louise	A 3	Lincoln
Schmidt, August Carl	L 3	Lincoln
Schmocher, Fred C.	A 2	Columbus
Schofield, Leah	CA 1	Lincoln
* Schofield, Mary Anne	CA 4, T 4, (S)	Lincoln
Scholten, William	M 2	Lincoln
Schrantz, Ernest Gustav Herman	A 1	Lincoln
Schroeder, Fred James	A 2	Eustis
Schulte, Cornelius John	CA 3	Lincoln
Schulte, Julia Catherine	A 1	Elgin
Schulte, Mary Anna	G	Lincoln
Schulte, Regina Bernardine	G	Lincoln
Schultz, Gertrude Lonelda	A 1	Lincoln
Schultz, John Carsten	E 3	South Omaha
Schultz, Minnie Marie	A 2	Louisville
Schumacher, William Alfred	A 1	DeWitt
Schwab, Harry	A 1	Osceola
Schwab, John Nicholas	A 1	Osceola
Schwake, Florence	A 3, T 3, (S)	Lincoln
Schwertley, Mary Salome	A 3, T 3	Omaha
Schwind, Faith Strother	CA 1	Lincoln
Schwind, Helen Mary	A 2	Lincoln
Scott, Albert Guy	A 1	Cowles
Scott, Aurelia Marion	CA 3	Lincoln
Scott, Clifford Bryan	A 1	Rushville
Scott, Ethel Augusta	A 4, T 4	Kearney
Scott, Everett B.	CA 1	Kearney
Scott, Helen Lucile	A 2	Stromsburg
Scott, Henry Miller	G	Lincoln
Scott, Melvin Roscoe	L 2	Shelby
Scott, Robert Douglas	G	Lincoln
Scott, Wallace Marker	E 1, (HSAc)	Lincoln
Scott, William J.	L 3	Lincoln
Scoville, Enod Comtesse	Au, (S)	Tecumseh
Scoville, Mildred Clare	A 2	Hartington
Scoville, Ralph John	A 1	Hartington
Scribner, Gertrude	A 2	Lincoln
Scriven, Dee Mathias	A 3, (Ex, S)	St. Edward
Scriven, Eva Louise	CAu	Mitchell
Scriver, Clare Ethelyn	A 3	Lincoln
Sealey, Henry Jeptah	G	Pierce

\* Deceased.

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Sears, Gulieima	A 1	Decatur
Seeger, Winifred	A 1	Glenwood, Ia.
Seeman, George McHenry	A 3	Columbus
Seidel, Herman L.	L 2	Stanton
Selleck, John Kent	E 4	Lincoln
Selleck, Marjorie Cornelia	A 4	Lincoln
Sellon, George Irving	M 4	Kemmerer, Wyo.
Severin, Richard Otto	A 4, T 4, (S)	Lincoln
Seymour, Jane Bowdin	A 3, (S)	Lincoln
Shanafelt, Otis Guy	G	Lincoln
Shanek, Bertha	A 4, T 4, (S)	Odell
Shank, Edith Rose	A 3, T 3	Superior
Sharp, Marlay A.	E 1	Hebron
Sharpless, Emma Idalene	CA 3, A 3, (S)	Ansley
Shaw, Arletta Jane	Au	Lincoln
Shaw, Harry	E 2	Adams
Sheehan, Elizabeth Anne	G	Columbus
Sheils, Iloa Jay	E 1	Scottsbluff
Sheldon, Georgia May	A 1	Sheridan, Wyo.
Sheldon, Ruth	A 1	Omaha
Shepherd, Tryon Mason	A 2	Lincoln
Shepherd, William	A 2	Rulo
Sheradden, Jasmine	A 2	Omaha
Sherwood, Clement Miner	L 2	Red Cloud
Sherwood, Phil S.	E 1	Red Cloud
Shields, Edna Pearl	A 3	Bethany
Shinn, Lyle Bennet	E 1	Lincoln
Shirey, Clarence Raymond	A 2	Kearney
Shoemaker, Frank Henry	Au	Lincoln
Shonka, Carolyn Svetla Hanzlik	A 3, (Ex)	Lincoln
Shonka, Rose Amelia	CAu	Richland
Shonka, Sylvester Vaclar	L 3, A 1	David City
Shoop, Marie Hildegarde	A 1	Lincoln
Shrum, Lillian Edith	A 3, T 3	Omaha
Shue, Harriet Hazel	A 2	Beaver City
Shumway, Howard Paine, Jr.	A 3	Wakefield
Shumway, Myrtle Anna	A 2	Scottsbluff
Shurtliff, Roswell Johnson	L 2	Trenton
Sigworth, Dwight Chace	A 1	Stanton
Simmons, Florence Gladys	A 1	McCook
Simmons, Helen Marguerite	A 1	Schuylerville
Simmons, Pearl M.	Au, (S)	Central City
Simms, John Hickman	A 1	St. Joseph, Mo.
Simpkins, Gladys Edna	A 2	Fairbury
Simpson, Otis Earl	A 2	Wahoo
Sinamarck, Andrew	A 4, (S)	Fremont
Sinkie, Otto August	A 3	Duncan, S. D.
Sipes, Ada Blanche	A 3, T 3	Franklin
Sisler, Rebanis	A 2	Geneva
Sisson, Fred Warner, Jr.	E 1	Ainsworth
Sisty, Mildred Louisa	A 3, T 3	Lincoln
Sjogren, Oscar Warner	CAu	Lincoln
Skinner, Lewellyn Terry	CA 3	David City
Slade, Bartlett Paine	L 2	Lincoln
Slater, Harold Charles	E 4	Lincoln
Sloan, Charles Porter	CA 1	Geneva
Sloan, Ethel	A 3, (FA)	Geneva
Sloan, Frank Blaine	CA 1	Geneva
Sloat, John Burget	CA 1	Harvard
Smart, Marie Josephine	A 4, T 4	Omaha
Smith, Alvin	E 2	Lyons
Smith, Amarilla Cobern	G, (S)	Talmage
Smith, Arthur Lawrence	M 3, A 4, (S, HSAC)	Charter Oak, Ia.
Smith, Charles Richard	A 2	Tilden
Smith, Clara Lotspeich	Au, (Ex)	Newell, S. D.
Smith, Elizabeth May	Au	Lincoln

Smith, Franklin Perry.	L 2.	Fremont
Smith, Fred Clarence.	E 1.	Superior
Smith, George Irvine.	A 1.	Sheridan, Wyo.
Smith, George Walter, Jr.	E 2.	Wilber
Smith, Harry Fisher.	E 2.	Lexington
Smith, Hugh Ellison.	E 3.	North Platte
Smith, Lora Viola.	A 4.	Lincoln
Smith, Margaret J.	G, (S).	Lincoln
Smith, Mearl Curtis.	A 4, T 4, (S).	Belgrade
Smith, Ralph Emerson.	A 3.	Lexington
Smith, Raymond Albert.	A 2.	Lincoln
Smith, Raymond Oliver.	CA 1.	Blair
Smith, Sylvia Lee.	A 3, T 3.	Syracuse
Smith, Villiers Deaver.	A 3.	Beaver City
Smrha, Albert Michael.	A 2.	Milligan
Snell, Hazel Frost.	A 4.	Lincoln
Snow, Frank Mead.	Au.	Lincoln
Snyder, Erwin Paul.	A 3, T 3, (S).	Lincoln
Snyder, Helen Jane.	G.	Lincoln
Snyder, Kenneth McGlaughlin.	A 1.	Council Bluffs, Ia.
Snyder, Leon Henry.	A 1.	Alma
Solomon, Julia Marguerite.	CA 2.	Omaha
Soltow, Lawrence Milton.	A 2, E 2.	Lincoln
Somers, Frederick August.	E 3.	Bethany
Somerville, Clarence Monroe.	L 3.	McCook
Somerville, William Marvin.	L 3, (S).	McCook
Sorensen, Christian Abraham.	A 1.	Boelus
Sorensen, Helen Brown.	A 2.	Omaha
Southwick, Phil Orin.	A 1.	Lincoln
Sowell, James William.	G, (S).	Omaha
Spacht, John Roy.	E 3.	Alliance
Spafford, Lewis Lansing.	CAu, (HSAc).	Falls City
Spafford, Russell Richard.	CA 1.	Falls City
Spalding, Mary Louisa.	Au.	Lincoln
Sparks, Helen.	A 1.	Valentine
Spaulding, Earle Rowe.	A 4, E 2.	Gothenburg
Spaulding, James Benedict.	A 4, L 1.	Lincoln
Spear, Bertha Erimina.	Au.	Seward
Spear, Fred Lawrence.	L 2.	Genoa
Spear, Julia Matilda.	A 4, (S).	Seward
Spellman, Charles Benton.	CA 1.	Adams
Speits, Alma Ionia.	A 4, T 4.	Lincoln
Spencer, Percy Craig.	A 1.	Cody, Wyo.
Spier, Willa J.	A 3, T 3.	Omaha
Spirk, Bertha Laura.	Au.	Wilber
Spirk, Victor Martin.	A 1.	Wilber
Sponsler Olenus Lee.	G.	Lincoln
Spooner, George Ashton.	E 1.	Council Bluffs, Ia.
Sprague, Cedric Bingham.	E 2.	Lincoln
Sprague, Erma.	A 4, T 4.	Denver, Colo.
Sprague, Harold William.	E 3.	Lincoln
Sprague, Lloyd Carlton.	E 1.	Belgrade
Sprague, Thomas Baxter.	L 2.	Lincoln
Springer, Helen Luree.	A 2.	Lincoln
Squires, Ruth Madeline.	A 2.	Ord
Stanley, Lamar Rush.	A 3, T 3.	Aurora
Stanton, Hazel Martha.	A 4, T 4.	Polk
Starr, John Wilson.	G.	Genoa
Stastny, Olga Francis.	M 3.	Wilber
Stauffer, Carroll Orville.	L 3.	Oakland
Stauffer, Miles Lester.	E 1.	Lyons
Stayner, Fay.	A 1.	McCook
Steckelberg, Minnie Catherine.	A 2, (S).	Plymouth
Steckley, Regina Elizabeth.	A 1.	Lincoln
Steel, Robert Edwin.	CA 2.	Falls City
Steenburg, Edmund Kenneth.	A 1.	Aurora

## ROSTER OF STUDENTS

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Steenken, Caroline E.	Au.	Lincoln
Steiner, Helen Margarette.	A 4, (S)	Lincoln
Steinhart, Morton	L 2.	Nebraska City
Stelk, William Detlef.	CA 2.	Grand Island
Stenger, Cecilia Caroline.	A 3, T 3	Columbus
Stenger, Mathilde	A 2.	Columbus
Stepanek, Orin G.	A 3.	Crete
Stephens, Estella Bell.	CA 1.	Fremont
Stephens, Lamont Levern.	Lu.	Rockville
Stephenson, Annie Eliza.	Au.	Lincoln
Stephenson, Bernice Ella.	A 1.	Wymore
Sterba, Vlasta Louise.	A 2.	South Omaha
Sterne, Alice Ruth.	A 1.	Grand Island
Sterne, Mabel Henrietta.	A 1.	Grand Island
Stevenson, Marguerite Blanchard.	A 4, T 4, (S)	Mitchell
Stewart, Cloyd Le Verne.	Lu.	Laramie, Wyo.
Stewart, Donald Warner.	A 3.	Lincoln
Stewart, Elvessa Anne.	A 4, (S)	Fremont
Stewart, Grace Darling.	Au.	Seward
Stewart, Marguerite Theresa.	A 4, T 4	Blair
Stewart, Roy Glen.	E 1.	Randolph
Stibal, John, Jr.	E 4, (S)	Richland
Stibal, Thomas	A 1.	Richland
Stilwell, Fern Geoa.	A 1.	University Place
Stimson, Bessie Maynon.	CA 1.	Pawnee City
Stivers, Madeleine Gladys.	A 2.	Lincoln
Stocking, Delia Verne.	A 3.	Omaha
Stockwell, Edward Dana.	Eu.	Omaha
Stoddart, Paxton Colladay.	CA 1.	Lincoln
Stonecypher, Ruth	CA 1.	Lincoln
Storey, Vernon Madelaine.	A 3.	Red Cloud
Storrs, Ethel Bernice.	A 1.	Cedar Rapids
Stout, Richard Forbes.	L 1.	Lincoln
Stroemer, Marie Katherine.	A 2, (S)	Alvo
Stryker, Franklin Hird.	A 2.	South Omaha
Stuart, Melinda Berry.	Au.	Lincoln
Stuby, Helen Louise.	A 1.	Sheridan, Wyo.
Stuckey, Jake Joseph.	CA 1.	Broken Bow
Stuckey, Thomas A.	A 1.	Broken Bow
Stuff, Frieda Naomi.	A 2, (FA)	Lincoln
Stuff, Frederick Ames.	G.	Lincoln
Sturdevant, Lazelle Brantly.	G.	Lincoln
Sturdevant, Olivia Zoe.	A 2.	Atkinson
Surges, Paul Taylor.	CA 3.	Lincoln
Sturgis, George William.	A 1.	Sioux City, Ia.
Sturm, Gertrude	A 2.	Nehawka
Sturm, Victor Andrew.	A 2.	Nehawka
Stutt, Aden Frederick.	L 1.	Avoca
Suhr, William	Lu.	West Side, Ia.
Sullivan, Alma Leona.	A 4, (Ex).	Broken Bow
Sullivan, Erma	A 3.	Broken Bow
Sullivan, Mabel Gertrude.	A 4, (S)	Lincoln
Sullivan, Mary	G.	Omaha
Sullivan, Theodore J.	E 2.	Central City
Sumner, Lulu Tracy.	Au.	Lincoln
Sutherland, Lillian Jane.	G, (S).	Grand Island
Swan, Edward Claire.	A 2.	Sioux City, Ia.
Swan, Grace Victoria.	CAu.	Sioux City, Ia.
Swan, Harold Marion.	A 1.	Sioux City, Ia.
Swan, Jesse Randolph.	Lu.	Crab Orchard
Swan, John Theodore.	A 3.	Lincoln
Swanson, Harry R.	A 1, (HSAe)	Omaha
Swanson, Oliver Milton.	E 4.	St. Edward
Swanson, Swan Arthur.	E 3.	Holdrege
Swartzlander, Fredericka	A 1.	Omaha

Swearingen, Thomas	L 3	Roca
Sweeley, Ralph Chapman	A 3	Omaha
Sweeney, Roger	E 2	Lincoln
Swenk, Iva Beatrice	A 2	Lincoln
Swenk, Myron Harmon	G	Lincoln
Swenson, Nels Arthur	A 2	Holdrege
Swenson, Otto Frederick	G	Holdrege
Swezey, Marien Frances	A 3	Lincoln
Swift, Russell Freeman	A 1	Harlan, Ia.
Swingle, George Grenville	A 1	Lincoln
Switzler, Robinson Merideth	L 3	Omaha
Taft, Harold E.	E 1	Lincoln
Talcott, Vernon Vivaldo	A 1	Arion, Ia.
Tallon, Chester Loring	E 1	Tobias
Tate, John Torrence	G, (S)	Lincoln
Taylor, Earl John	CA 3	Lincoln
Taylor, Earle Howard	Au.	Yates Center, Kans.
Taylor, Gorten Wallace	A 1	Lincoln
Taylor, Jesse Day	M 4	University Place
Taylor, Otis E.	A 1	Madison
Teach, Charles Elden	G.	University Place
Teeter, Hazel Fern	A 4	North Bend
Temple, Duward Belmont	Lu.	Wayne
Temple, Harold Lee	A 1	Lexington
Terwilliger, Annah	A 1	Lincoln
Tewell, James Leonard	A 4, L 2	Holdrege
Tewksbury, Edith Frances	A 2	Lincoln
Tewksbury, Marie Cecil	A 2	Lincoln
Thayer, Nellie Maude	A 1, (S)	Bertrand
Theisen, Henry, Jr.	A 1	West Point
Therkelsen, Carrie Chmelka	Au. (S)	Lincoln
Thiel, Leo Francis	G.	College View
Thierolf, Ann Margaret Wilhelmina	Au, (FA)	Plattsmouth
Thomas, Bernice Ada	CA 1	Omaha
Thomas, Clyde Samuel	A 1	Omaha
Thomas, Fairy	Au.	Lincoln
Thomas, Gladys Elizabeth	A 4, (S)	Lincoln
Thomas, Harry Neilson	CA 1	University Place
Thomas, Louie Ernest	A 1	Hebron
Thomas, Rachael Merle	A 4, T 4	Lincoln
Thomas, Rowland Paul	L 2	Omaha
Thomas, Walter Christopher	E 1	Seward
Thomas, Walter Harris	Mu.	Lincoln
Thompson, Alva Dor	G, (S)	Nelson
Thompson, Benjamin Harrison	E 4	Overton
Thompson, Guy G.	Eu.	Falls City
Thompson, Harry Landis	A 4, (4 yr. Pharmacy)	West Point
Thompson, James Franklin	A 3, T 3, (S)	Lincoln
Thompson, Joseph Wood	A 1	Denver, Colo.
Thompson, Lois Margaret	A 4, T 4	Lincoln
Thompson, Lucien Orin	CA 3	Omaha
Thompson, Margaret Louise	A 4, T 4	McCook
Thompson, Richard Yoder	A 2	West Point
Thompson, Robert George	A 1	Omaha
Thompson, Susanna	CA 3	Lincoln
Thompson, Thomas Grier	L 2	Big Springs
Thompson, Will Edward Schenck	L 2	Omaha
Thomson, Ray Thomas	CA 1	Orchard
Thornburg, Bertha Wilhelmina	A 3, (FA)	Lincoln
Thornburgh, Helen	A 1, (FA)	Lincoln
Thorrell, Kent Hampton	A 1	Sidney, Ia.
Thornton, Ray Ballou	Au, (S, Ex)	Neligh
Thuresson, Paul Frank	M 1	University Place
Tibbets, Albert Burr	CA 2	Hastings
Tibbets, Anna Mary	G.	Lincoln
Tibbets, Mary Ruth	A 4, T 4	Hastings

## ROSTER OF STUDENTS

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Tidd, Charles William	E 2	Palmer
Tierney, Florence Loretta	Au, (FA)	Lincoln
Tippet, Charles Emery	E 1	Lincoln
Tilton, Frank Benjamin, Jr.	A 3	Seward
Titsworth, William Bloss	Eu	Lincoln
Tobiska, Joseph William, Jr.	A 4	Wilber
Todd, Willson Grant	A 1	Omaha
Tollinger, Cecil Laverne	A 1	Lincoln
Toney, Perry Sylvester	E 3	Omaha
Tourtelot, Charles Victor	Au	Lincoln
Towle, Leland Merle	CA 1, (HSAc)	Lincoln
Towle, Maxwell Getty	L 2	Lincoln
Townsend, Claudiie Cornelia	Au	Clay Center
Townsend, David Wood	Au	Dallas, S. D.
Townsend, Lewis Alonzo	CA 2	Central City
Tracy, Alice Cecelia	Au, (S)	Greeley
Tracy, Margaret Loretta	Au, (S)	Greeley
Traub, William Charles	L 1	Gordon
Treat, Anna May	A 4, (S)	Lincoln
Trimble, Chandler	L 1	Lincoln
Troup, Ramona	A 1, (S)	Lincoln
Troup, Wallace Burns	A 2	Omaha
Troxel, Christabel	A 3, T 3, (S)	Lincoln
Troxel, June Rose	A 1	Lincoln
Truax, Ralph Elbert	A 2	Lincoln
Truell, Grace Knowlton	A 3, T 3 (FA, S)	Lincoln
Trumbull, Fred Robert	CA 2	Minden
Tucker, James C.	M 4	Tabor, Ia.
Tunison, Fay	A 2, (Ex)	Aurora
Tunks, Glen Vern	CA 3	Central City
Tupper, Lillian Scott	CA 2	Osmond
Turner, Harriet Marie	A 1	Blair
Turner, Hettie Margaret	Au, (S)	Bethany
Turner, Leta Etta	Cau	Blair
Turnure, Floyd Ayers	A 1	Red Cloud
Tuthill, Frances Marion	A 1, (HSAc)	Lincoln
Tweed, Lois Ethel	A 1	Edgar
Tyler, Gertrude Ida	A 3	Auburn
Tyler, Varro Eugene	Au, (Ex)	Syracuse
Tym, Norris	A 1	Omaha
Ubl, Joseph Lumir	Mu	Prague
Underwood, Alice Catherine	A 1, (S)	Lincoln
Underwood, Clinton Brooks	L 1	St. Paul
Underwood, Ruth Lena	A 1	Lincoln
Unruh, Cara Teneda	A 2	Blair
Unruh, George Overton	CA 3	Blair
Unthank, Beulah Claire	A 1	Arlington
Updegraff, Elmer Le Roy	A 1	Omaha
Utterback, Archie Beaumont	A 1	St. Edward
Utterback, William Grandison	A 1	Nebraska City
Vail, Arvilla Ada	A 3	Albion
Vail Nellie Antoinette	G	Lincoln
Van Buskirk, Besse A.	G	Bethany
Van Cleave, Frank Ellsworth	Lu	Hendley
Van Cleave, Ora Judson	Lu	Hendley
Van Driel, Gertrude Regina	A 2	Malmo
Van Driel, Julia Helen	A 2	Malmo
Van Dusen, Dana Burgess	A 4	South Omaha
Vasey, Harvey Elmer	CA 3	Liberty
Vasey, Walter Artemus	L 3	Beatrice
Vaughan, Henry	E 1	Lincoln
Veith, Anna Margaret	A 3, T 3	Lincoln
Veith, Katharina Christina	Au	Lincoln
Vequist, David George	CA 1	O'Neill
Versaw, Paul Edward	E 2	Franklin
Viele, Inez	A 1	Norfolk

Virtue, Meta Vogel.....	Au.....	Lincoln
Vlasnik, George Lafayette.....	E 4.....	Center
Voderberg, Helmuth Henry Max.....	E 4.....	Lincoln
Vogler, Robert Clyde.....	CA 1, (HSAt).....	Kimball
Vrana, Edward.....	Eu.....	Omaha
Wade, Merle Elwood.....	A 2.....	Lincoln
Wagner, Ona Ruth.....	A 1.....	Libera
Wagner, Ralph Patterson.....	E 2.....	Sturgis, S. D.
Waite, Dorothy Olivia.....	A 1, (S).....	Lincoln
Waits, Mayme Nettie.....	Au, (S).....	Farnam
Wake, Harold Robert.....	E 4.....	Genoa
Walford, Roy Herbert.....	L 1.....	Bayard
Walker, Edson Ozro.....	E 2.....	Cedar Bluffs
Walker, Glen Allen.....	E 3.....	Cedar Bluffs
Walker, Grace Isabelle.....	A 4.....	Douglas
Walker, Leon Burdette.....	A 3.....	Lincoln
Walker, Leva Belle.....	G, (S).....	Lincoln
Walker, Louisa Viola.....	A 2.....	Cedar Bluffs
Walker, Lowell Lampert.....	L 1.....	Cedar Bluffs
Walker, Ruth Mabel.....	Au.....	Davenport
Wallace, Helen Margaret.....	A 3.....	Lincoln
Wallace, Lucian Ellerslie.....	E 1.....	Lincoln
Wallengren, Delbert Ernest.....	E 4.....	Lincoln
Walsh, Stasia.....	Au, (S).....	Missouri Valley, Ia.
Walter, Frank Herbert.....	A 2, CA 2.....	Lincoln
Walter, Lloyd DeWitt.....	E 4.....	Oxford
Walter, Otto Fasolt.....	A 4, (S, Ex).....	Columbus
Walton, Martha Mettler.....	Au.....	Lincoln
Walton, Ruth Mabel.....	A 1.....	Winnetoon
Ward, Lydia Moore.....	G.....	Lincoln
Ward, Nell Marguerite.....	A 3, (4 yr. Pharmacy).....	Lincoln
Ware, Arthur Hale.....	Au, Lu.....	Lincoln
Warner, Donald Herbert.....	CA 1.....	Lincoln
Warner, Esther.....	A 4, T 4.....	Lincoln
Warner, Kenneth Fisher.....	A 4.....	Lincoln
Warner, Leon George.....	L 1.....	Beaver City
Warnock, Elsie.....	G.....	Wayne
Warren, Elizabeth Lucretia.....	A 2.....	Ulysses
Warrick, Harriet Elizabeth.....	CAu.....	Meadow Grove
Warton, Harry Orville.....	L 2.....	Superior
Wasson, Minor Fleming.....	L 3.....	Lincoln
Waters, Grace Kimberly Ahlering.....	Au.....	Lincoln
Waters, James Alton.....	E 3.....	Elmwood
Waters, Nancy Melvina.....	A 2.....	Elmwood
Watkins, Clyde Edward.....	Au, (S).....	Lincoln
Watkins, Dudley Ward.....	E 1.....	Cody, Wyo.
Watson, John Cicero, Jr.....	A 4.....	Nebraska City
Watson, Julia Permelia.....	G.....	Lincoln
Watson, Opal E.....	A 1.....	Macedonia, Ia.
Waugh, Samuel Clark.....	Lu.....	Lincoln
Way, Charles Willard.....	A 1.....	Wahoo
Weaver, Gladys Clara.....	A 1.....	Norfolk
Weaver, John Ernst.....	G.....	Lincoln
Weaver, Kenneth Horton.....	A 1.....	Lincoln
Weaver, Lester Horace.....	E 2.....	Norfolk
Webb, Adin Hilton.....	A 2.....	Lincoln
Weber, Clarence Raymond.....	CA 2.....	Tecumseh
Weber, Walter Minor.....	E 3.....	Lincoln
Webermeier, William John.....	CAu.....	Milford
Webster, Richard Orin.....	G.....	Omaha
Weedman, Walter Franklin.....	M 2.....	Ottawa, Kans.
Weeks, David Parker, Jr.....	E 1.....	Lincoln
Wegener, Karl Frederic Ernst.....	Au, (S).....	Lincoln
Weil, Babette.....	A 1.....	Lincoln
Weil, Gladys.....	A 2.....	Lincoln
Welch, Leslie Andrew.....	A 4, L 1.....	Wayne

## ROSTER OF STUDENTS

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Welden, Lelia	A 1	Lexington
Wells, Clifford Webb	M 2	Des Moines, Ia
Wells, Hugh Gilbert	Eu	Broken Bow
Wells, Stiles Sherman	E 2	College View
Wendland, Henry William	G, (S)	Osceola
Wendland, Janie Pulver	G, (S)	Osceola
Wenger, Leah Margaret	A 1	Lincoln
Wenstrand, William Wallace	L 2	Wahoo
Wentworth, Will	CA 1	Omaha
Wentz, Harry Maurice	E 1	Lincoln
Weseen, Maurice Harley	A 3	Oakland
Wessel, Henry	A 3	Lincoln
Westberg, Ethel Beatrice	A 1, (FA)	Osceola
Western, Abbie	A 3, T 3	Villisca, Ia.
Westervelt, Alfred Edward	M 3	Omaha
Weston, Elizabeth Longfellow, Jr	CA 2	Beatrice
Westover, Bernard Galen	A 1	Rushville
Westover, Clarence Edward	E 2	Lincoln
Westover, Raymond Paschal	A 1	Rushville
Westover, Richard Van	E 1	Lincoln
Westveer, Helen Elizabeth	A 1	Schuylerville
Wetterer, William Carl	CA 1	Central City
Weyl, Leon H	E 1	Trenton
Whaley, Frances Alice	A 4, (S)	Lincoln
Wheeler, Janet Lucile	CA 1	Wymore
Wheelock, Ruth Ada	CA 2	Beatrice
Wherry, Bernice Lucille	A 2	Pawnee City
Wherry, James Arthur	A 2	Pawnee City
Wherry, Kenneth Spicer	A 2	Pawnee City
Whisenand, James Wilbur	CA 1	Harvard
Whisenand, Stephen Harold	CA 1	Harvard
Whisler, Verna Charlotte	Au	Lincoln
Whitecomb, Glenn D.	A 2	York
White, Carol Clarke	Au, (FA)	University Place
White, Clyde	A 1	York
White, David George	G	Plattsmouth
White, Janet Blanch	A 1	University Place
White, Laura Amanda	G, (S)	Webster City, Ia.
White, Shelley Perry	L 1	Omaha
Whitcorn, Homer Austin	G	University Place
Whitnah, Carroll Henry	E 2	Grand Island
Wickland, Arthur Julius	G, A 4, (S)	Lincoln
Wicks, Lorenzo Clisby	E 3	Lincoln
Wickstrum, Parker Marion	A 1	Lincoln
Widener, Will Oscar	A 1	Lincoln
Wiebe, Herman Harry	A 3	Bentrice
Wiese, Bertha Margaretta	A 2	South Omaha
Wiese, Meta	A 3	Lincoln
Wiese, Otto	G	Avoca, Ia.
Wiggenjost, Agnes Ottie	Au, (Ex)	Lincoln
Wiggins, Ida Duffield	A 1	Lincoln
Wilcox, Clare Emerson	A 1	Lincoln
Wilcox, Clifford Franklin	A 1	Lincoln
Wilcox, Gertrude Alice	A 4, T 4	Lodgepole
Wilcox, Guy Emerson	E 1	Grant
Wilcox, Marion Rebecca	A 2, (S)	Lincoln
Wildhaber, William Tell	A 2	Plymouth
Wiley, W. Willard	CA 1	York
Wilhelmsen, Emma	G	St. Paul
Wilke, Charlotte	G, (S, FA)	Lincoln
Wilkinson, Gladys Bernice	A 1	Lincoln
Willey, Maud	A 2	Mead
Williams, Bert Edward	Lu	Lincoln
Williams, Bessie Mary	A 1	Lincoln
Williams, Blanche Grace	A 3	Neola, Ia.
Williams, Cyrus Vance	G	University Place

Williams, David John.	A 2.	Lincoln
Williams, Delbert.	CA 2.	College View
Williams, Edith Blanche.	A 3, T 3.	Lincoln
Williams, Frank Dean.	L 1.	Lincoln
Williams, Guy Harry.	Lu.	Alliance
Williams, Hazel Vera.	A 4, (S).	Ponca
Williams, Hugh Van Duyn.	A 1.	Lincoln
Williams, Lulu Margaret.	A 3.	Lincoln
Williams, Lyman Tupper.	CA 1.	Omaha
Williams, Mildred Carnahan.	M 2.	York
Williams, Roger.	A 3, (S).	Gothenburg
Williamson, George Faxon.	G, (S).	York
Willis, Jessie Turnay.	Au.	Lincoln
Wills, Robert LeRoy.	A 1.	Butte
Willsey, Franklin Reynaldo.	CA 2.	Blair
Wilsey, Rex Bishop.	A 3.	Tecumseh
Wilson, Anne Mildred.	A 2.	Lincoln
Wilson, Bert.	G.	Bethany
Wilson, Byrel Nevil.	E 4.	Lincoln
Wilson, Clara Owlsley.	A 4, (S).	Lincoln
Wilson, Dena Arabelle.	CA 2.	University Place
Wilson, Ernest Dana.	A 3, (S).	Lincoln
Wilson, Ervin Fillmore.	G.	Columbus
Wilson, Florence Sue.	A 4, (FA).	Lincoln
Wilson, George Balch.	E 3.	Rushville
Wilson, Henry True.	E 2.	Lincoln
Wilson, Hugh Carter.	CA 2, E 2.	Lincoln
Wilson, Ida Gillette.	A 1.	Lincoln
Wilson, Ina Mabel.	A 3.	Lincoln
Wilson, Lucie Mildred.	A 2.	Lincoln
Wilson, Maude Mathes.	CA 3.	Lincoln
Wilson, Ralph Parks.	L 2.	Lincoln
Wilson, Robert Hunt.	E 1.	Holdrege
Wilson, Wade Angus.	A 4.	Lincoln
Wilson, Walter Feasel.	A 2, (FA).	Lincoln
Wiltse, Mary Elizabeth.	A 1, (Ex).	Falls City
Wimberly, Lowry Charles.	A 1.	Table Rock
Winston, Mary Aileen.	A 1.	Ponca
Wirsig, Otto Allen.	A 1.	Taylor
Wirt, Frederick Alfred.	A 2.	Cook
Withers, Myra.	E 3.	Kansas City, Mo.
Wittmann, Elisabeth Marie.	Au, (Ex).	Lincoln
Wittmann, Robert Joseph.	G.	Lincoln
Wittstruck, Moses Henry.	CA 1.	Lincoln
Wohlenberg, Ernst Theodore Frederick.	Lu.	Lincoln
Wohlford, Charles Jerit.	CA 4.	Rushville
Wolesensky, Frank.	E 2.	Crete
Wolfanger, Lenore Olive.	E 4.	Plattsmouth
Wolgamot, Winifred Olta.	G.	Lincoln
Wolvin, Grace.	G, (S).	Utica
Wolvington, William Thomas.	Au, (S).	Philipine Islands
Wood, Adah Mary.	A 4, (Ex).	University Place
Wood, Donald Lester.	G, A 3, (S).	Cuates, N. M.
Wood, Doris.	L 1.	Omaha
Wood, Ivan Daley.	A 4.	Clarks.
Wood, James Ralph.	E 4.	Omaha
Wood, Myrtle Marcia.	CA 3.	Wabash
Wood, Norman Elmore.	Au.	Grand Island
Wood, Theodore Edward.	G, (S).	Sidney
Woodard, John Albert.	Eu.	Havelock
Woodburn, Mary Edith.	G, (Ex).	Alma
Woodruff, Elizabeth Marie.	A 2, (S).	Asbury Park, N. J.
Woodward, James Mac.	Au.	Lincoln
Wooldridge, Francis Delyn.	A 3, M 1.	Kimball
Wooster, Margaret.	A 1.	Silver Creek
Worden, Wauneta Gladys.	A 3, T 3.	Columbus
	A 1, (S).	

*ROSTER OF STUDENTS*

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Worley, Carl Hemmenway.	A 3, (S).....	York
Worley, Ivan Harold.....	E 1.....	Lincoln
Worrall, Mark Ridling.....	Au.....	Lincoln
Worster, William W.....	G.....	College View
Wort, Bernice L. Margaret.....	Au.....	Lincoln
Wort, Julia Minot.....	G.....	Lincoln
Worthley, Evans Alvah.....	G.....	Wilber
Worthman, Henry Fred.....	E 2.....	Lincoln
Wright, Anne .....	Au.....	Schuylerville
Wright, Charles Leonard.....	A 1.....	Lincoln
Wright, Harold Bearse.....	E 4.....	Hebron
Wullsleger, Cornelia Freida.....	A 2, (S).....	Leigh
Wyckoff, Edgar S.....	Au. (S).....	Wilber
Wyland, Fred E.....	A 1.....	Harlan, Ia.
Wyman, Frances Elizabeth.....	CA 2.....	Lincoln
Wyman, Harriet Minerva.....	A 4, T 4, (S).....	Lincoln
Wyman, Louise May.....	CA 3.....	Lincoln
Wynne, Annie Loverne.....	Au.....	Kansas City, Mo.
Yale, Dean Everett.....	CA 1.....	Beatrice
Yates, Katharine Lucile.....	A 3.....	Lincoln
Yochum, Charles Lewis.....	A 3.....	Talmage
Yont, Rose .....	G, (S).....	Lincoln
York, Licena May.....	A 3.....	Havelock
Yost, Metta Kate.....	Au.....	Lincoln
Young, Blaine Augustus.....	A 4, M 2.....	Malvern, Ia.
Young, Earl Shafer.....	L 1.....	Hebron
Young, Frances .....	A 1.....	Broken Bow
Young, Horace James.....	G, CA 4, (S).....	North Bend
Young, Mary Clara.....	G.....	Lincoln
Young, Roy Marquis.....	E 1, (HSAc).....	Benson
Youngquest, Hilda Josephine.....	CA 1.....	Aurora
Zetterman, Harry Leonard.....	E 1.....	Shickley
Zimmer, John Todd.....	G.....	Lincoln
Zimmerman, Samuel Clancy.....	A 1.....	Lincoln
Zimmerman, Wana Marie.....	CA 1, (S).....	Lincoln
Zumwinkel, Alwine Caroline.....	A 4, T 4.....	Utica
Zumwinkel, Otto Herman.....	A 1.....	Utica



1911-1912

## ROSTER OF STUDENTS IN THE SCHOOLS\*

Agriculture, Fine Arts, Music, Pharmacy, Teachers College High School,  
 High School Academy and Department of University Extension.

## Abbreviations

Letters indicate school and figure indicates year.

SA—School of Agriculture; SAs—School of Agriculture, short course; FA—  
 School of Fine Arts; P—School of Pharmacy; HS—Teachers College High School;  
 HSAc—High School Academy; Ex—University Extension; u—Unclassed.

Name	School or Department	Home Address
Abbott, Elmer James	SAs	Tecumseh
Abbott, Harry Earl	SA 2	Tecumseh
Adams, Earl Thomas	SAs	Lincoln
Adams, Letha	HS	Lincoln
Adams, Muriel R.	Ex	Bennet
Adams, Orra Scott	SA 3	Venus
Adams, Perry Oliver	SA 2	Venus
Adkins, Nellie Margaret	SA 1	Lincoln
Ahrens, Edward Henry	SAs	Columbus
Ahrens, Ernst Arthur	SAs	Columbus
Aker, Parker	SA 2	Harvard
Albert, J. Roy	HS	Normal
Alden, Clara	Ex	Laurence, Mich.
Aldrich, Chester H.	SA 1	Lincoln
Alfonso, Emilio	HS	Lincoln
Alles, George E.	Pu.	Lincoln
Alm, Oscar	HSAc	Minneola
Ambrose, Edward Anton	SAs	St. Paul
Anderson, Alfred Rosen	SA 1	Concord
Anderson, Alfred	HS	Lincoln
Anderson, Edna Marion	SAU	Stromsburg
Anderson, Edo Hillding	(2 yr.) P 2	Holdrege
Anderson, Mrs. H. W.	SAU	Omaha
Anderson, Manuel	HSAc	Lincoln
Anderson, Nettie	HS	Lincoln
Anderson, Walter	SAs	Gordon
Andreas, John P.	SAs	Beatrice
Appleman, Clifford	HSAc	Lincoln
Armstrong, Charles Marion	SA 3	Greenwood
Armstrong, John W.	SAs	Hemingford
Armstrong, Verne E.	SAs	Germantown
Arnold, Martha	SA 2	Inavale
Arnold, Orton Frisbie	SA 3	Aurora
Aronson, George C.	SAs	Havelock
Arterburn, Roley	HS	Lincoln
Ashton, Edith	SA 1	Lincoln
Assenmacher, Oliver Peter	SA 1	Lincoln
Babcock, Vale	HS	Lincoln
Badgette, Marjorie E.	HSAc	Cheyenne, Wyo.

\* Immediately preceding this roster appear the names of students registered primarily in the colleges. No name appears on more than one roster. For definition of letters in parentheses, see first roster immediately preceding.

Bagley, Clarence	SA 2	Lincoln
Bailey, H. Paul	SAu	Lincoln
Baker, Floyd Elton	SA 1	Tilden
Baker, Morace Erwin	SAs	Stromsburg
Baker, William R.	SA 1	Lincoln
Ball, Myrtle	SA 2	Lincoln
Ball, Nina	HS	Lincoln
Ballard, Joyce	HS	Lincoln
Ballenger, Gail	HS	Lincoln
Barker, Don E.	SA 1	Neosho, Mo.
Barnhardt, Rollin Mapes	SA 2	Lincoln
Barr, Ernest Eugene	SAs	Ashland
Bauer, Gertrude	HS	Lincoln
Bauer, Raymond William	(2 yr.) P 2	Ponea
Bauer, Rosina	HS	Lincoln
Baughan, Jay T.	SA 2	Lincoln
Baugher, Dexter Leslie	SA 1	Bucklin, Mo.
Beattie, Ethel Blanche	FA	Lincoln
Beattie, Mabelle	FA	Lincoln
Bedell, Bessie C.	Ex	Benson
Beebe, Harry Curtis	SA 3	North Bend
Beeson, Helen	Ex	Scottsbluff
Bell, Edwin	HS	Ceresco
Bell, Lucile	HS	Vesta
Bell, Major	SAs	Hardy
Bengtson, Clyde	SAs	Wausa
Benham, Thomas Edwin	SA 2	Lincoln
Benner, Paul John	SA 2	Lincoln
Bennison, Sam	SA 3	Lincoln
Bern, Carl Elmer	SA 3	Wahoo
Biba, Albert	SA 2	Exeter
Bierman, August H.	SAs	Wisner
Black, Merle Thomas	(2 yr.) P 1	Lincoln
Blaha, Joseph V.	SAs	St. Paul
Blaikie, Harold	SA 1	Weeping Water
Blanchard, Floyd Orvil	SA 3	Friend
Bliss, Charlotte	SA 1	Lincoln
Bly, Mark Warren	(2 yr.) P 1	Beaver City
Bonekemper, C. I.	SA 2	Sutton
Bonner, Elsie C.	Ex	Sterling
Booth, Fannie Josephine	SA 1	Central City
Bordner, George Andrew	SAs	Geneva
Borg, Oscar S.	SAs	Concord
Borgelt, Ralph	HSAc	Lincoln
Boslaw, Frances	SA 3	University Place
Bouchal, Louis J.	Ex	Wilber
Bovey, John R.	SA 2	Crete
Bowers, Halley	HS	Lincoln
Bowman, Hazel Mae	SAu	Alliance
Brainard, Alma E.	HSAc	Normal
Bredenhofst, Marie Dorothy	SA 1	Berlin
Brehm, Harry Philip	SAs	Harvard
Bricka, Phillip Rea	SA 1	West Lincoln
Bricker, Harry V.	SA 2, SAs	Greenwood
Bridget, Sister M.	Ex	St. Louis
Briggs, Robert J.	SA 1	Fremont
Brix, Aage Emile	(2 yr.) P 1, HSAc	Lexington
Brooks, W. G.	Ex	Caldwell, Idaho
Brouse, Edgar Merlin	SA 3	Stratton
Brown, Carl W.	SAs	Falls City
Brown, Glenn Albert	SA 3	Lincoln
Brown, Louise D.	HS	Lincoln
Brown, Ora Clayton	SA 3	Carleton
Bryson, Kate Olive	FA	Lincoln
Buck, Dorothy	Ex	Bostwick
Buehler, Minnie	Ex	Sterling

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Buford, John Matthew.	SA 2.	Falls City
Buhler, Carl William.	SAs.	Oakdale
Buhrmann, Benjamin William.	SAs.	Sprague
Bull, Henry Kenneth.	SA 2.	Elkhorn
Burchell, Frank.	SAs.	Minden
Burgess, Anton R.	SAs.	Bethany
Burgess, Charles Norman.	SA 2.	Omaha
Burr, Vori.	SA 1.	North Platte
Bute, Mabel.	Ex.	Smithfield
Butler, Fred E.	HSAc.	Lincoln
Butler, Leland.	SA 1.	Lincoln
Caha, Caroline.	SA 1.	Wahoo
Calkins, Harold Almond.	SA 3.	Center
Calkins, Glenn Aldus.	SA 3.	Center
Callaway, Bessie.	FA.	Lincoln
Campbell, Alice Minerva.	SA 1.	Bethany
Campbell, Arthur Webster.	SA 3.	Bethany
Campbell, Mary Martha.	SA 2.	Bethany
Canfield, Sarah.	Ex.	Sterling
Carder, Truman.	SA 1.	Creighton
Carlisle, Charles E.	SAs.	Tilden
Carlson, Gilbert T.	SAs.	Wausa
Carlson, Walter Richard.	SA 2.	Ceresco
Cecelia, Sister Mary.	Ex.	Hastings
Chamberlain, Atwood.	HS.	Lincoln
Chamberlain, Leon Early.	HS.	Brownville
Chamberlain, Robert C.	SA 2.	North Platte
Chapin, Donald.	HS.	Lincoln
Chappell, Elwood Blake.	(2 yr.) P 2.	Osmond
Chase, Linus.	SA 3.	Pawnee City
Chestem, Abner Kenneth.	SA 2.	Decatur
Chittenden, Marguerite.	HS.	Lincoln
Christensen, Leslie.	SA 1.	Plainview
Christensen, Magnus Dale.	SA 2.	Allen
Christensen, Marius C.	SAs.	Davey
Christofferson, L. C. W.	SAs.	Tilden
Churchill, Clark Roger.	SAs.	Bancroft
Cizek, Joseph Charles.	SA 1.	Prague
Clara, Sister.	Ex.	Spalding
Clark, Mary C.	Ex.	Wynot
Cleary, John.	SA 2.	North Loup
Coad, Paul E.	SAu.	Omaha
Coffman, Bessie Josephine.	SA 2.	Lincoln
Cole, Arthur.	SAu.	Broken Bow
Cole, Olive.	SA 1.	Broken Bow
Collier, Phyllis.	HS.	Lincoln
Collins, Lynn V.	SAs.	Ord
Colombiere, Sister M.	Ex.	Edina, Mo.
Constance, Sister M.	Ex.	St. Louis, Mo.
Corby, William Arthur.	SA 1.	Neligh
Cordes, Henry L.	SAs.	Ulysses
Cornils, Paul.	SA 1.	Columbus
Cornish, William Earl.	SAs.	Tekamah
Coupland, William Cressy.	SA 3.	Elgin
Cowan, Lena.	FA.	Ashland
Crittenden, Marie.	HS.	Lincoln
Croft, Paul Harry.	SA 3.	Fairfield
Cropsey, Harry Thorborn.	SA 1.	Lincoln
Crouse, Samuel Thomas.	(2 yr.) P 2.	Osceola
Daily, Nellie E.	FA.	Lincoln
Daily, Sutton J.	HSAc.	Lincoln
Daiss, John C.	SAs.	Eustis
* Dale, Allen Walter.	SA 1.	Denton
Dankroger, W. F.	SAs.	Clatonia

\* Deceased.

Danielson, Dessie Alma . . . . .	FA . . . . .	Loup City
Darby, Luther M . . . . .	SAs . . . . .	Havelock
Daubendiek, Carl Henry . . . . .	SA 3 . . . . .	DeWitt
Davis, Archie . . . . .	HS . . . . .	Lincoln
Davis, Robin Walter . . . . .	SA 1 . . . . .	Lincoln
Davis, W. T. . . . .	Ex . . . . .	McCook
Day, Edna Belle . . . . .	SA 3 . . . . .	Lincoln
Day, Henry Robert . . . . .	SA 3 . . . . .	Superior
Dean, Allen Clifton . . . . .	SAs . . . . .	Wayne
Deane, Cecil Frank . . . . .	SA 2 . . . . .	Lincoln
Deeds, Ray Delbert . . . . .	SA 1 . . . . .	Stromsburg
Deffer, Bessie . . . . .	Ex . . . . .	Fairbury
Deitz, Stacy Taylor . . . . .	SA 1 . . . . .	Broken Bow
Delano, Clarissa . . . . .	HS . . . . .	Lincoln
Delano, Herman Stevens . . . . .	SA 1 . . . . .	Lincoln
Delano, Lois Elsie . . . . .	SA 3 . . . . .	Lincoln
Delzell, Everett Newton . . . . .	SA 1 . . . . .	University Place
Demary, Ethel . . . . .	FA . . . . .	Dunning
Dennis, Paul . . . . .	HS . . . . .	Lincoln
Dennis, William Thomas . . . . .	SAs . . . . .	Fullerton
* Diamond, Herbert . . . . .	HS . . . . .	Lincoln
Dobbins, Cecil . . . . .	HS . . . . .	Lincoln
Douthit, Leonard . . . . .	SAs . . . . .	Fullerton
Doyle, Anna . . . . .	Ex . . . . .	Greeley
Doyle, Kathleen Remine . . . . .	FA . . . . .	Lincoln
Drake, Phebe A . . . . .	Ex . . . . .	Primrose
Draper, Alice . . . . .	HS . . . . .	Lincoln
Drebert, Eleanor . . . . .	HSAc . . . . .	Lincoln
Dubach, Marvin . . . . .	SAs . . . . .	Rice Hill, Mo.
Dubois, Roy E. . . . .	SAs . . . . .	Western
Dunham, Robert . . . . .	HS . . . . .	Normal
Dunn, Lester Lloyd . . . . .	HSAc . . . . .	Atlantic, Ia.
Eaton, Alma Dorcas . . . . .	SA 2 . . . . .	Lincoln
Eby, Louis Richard . . . . .	(2 yr.) P 1 . . . . .	Hartington
Edinborough, Jessie Elizabeth . . . . .	FA . . . . .	Lincoln
Edmunds, James . . . . .	SAs . . . . .	Merna
Edwards, Lulu . . . . .	HS . . . . .	Alexandria
Edwards, Sarah . . . . .	HS . . . . .	Alexandria
Egger, Edward Albert . . . . .	SAs . . . . .	Sprague
Eigenbroadt, Helia . . . . .	HS . . . . .	Lincoln
Ellis, Florence . . . . .	SA 1 . . . . .	University Place
Ellis, Roger Earl . . . . .	SA 1 . . . . .	University Place
Ensign, Pauline . . . . .	HS . . . . .	Lincoln
Enyeart, Thomas Ross . . . . .	SA 2 . . . . .	Hemingford
Erickson, David Ludwig . . . . .	SA 1 . . . . .	Funk
Essig, Cecil . . . . .	SA 2 . . . . .	Red Cloud
Evans, George . . . . .	SA 2 . . . . .	Ohiowa
Evans, May . . . . .	Ex . . . . .	Sterling
Evans, Owen Griffith . . . . .	SA 2 . . . . .	Lawrence
Evans, Ralph Bud . . . . .	SA 2 . . . . .	Shubert
Eversole, Merle . . . . .	HS . . . . .	Denton
Eystone, Howard . . . . .	SA 2 . . . . .	University Place
Fairchild, F. M. . . . .	SAs . . . . .	Belmar
Fairhead, Joy . . . . .	SA 2 . . . . .	Merriman
Fairman, Eugenia . . . . .	FA . . . . .	Manhattan, Kans.
Farrell, Fred James . . . . .	SA 1 . . . . .	Aurora
Farrell, Joseph . . . . .	SAs . . . . .	Hyannis
Faulkner, Richard . . . . .	HS . . . . .	Lincoln
Fausch, Carl Nathaniel . . . . .	SA 2 . . . . .	Guide Rock
Feather, Orin Thomas . . . . .	SA 2 . . . . .	Havelock
Fees, Frank Edward . . . . .	SA 1 . . . . .	Minatare
Finch, Edgar . . . . .	HS . . . . .	Lincoln
Fishback, Ethel Grace . . . . .	SA 3 . . . . .	Beatrice
Fishback, Ira Frank . . . . .	SAs . . . . .	Harvard

\* Deceased.

## ROSTER OF STUDENTS

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Fisher, James . . . . .	SA 1 . . . . .	Elba
Fogg, Eleanor . . . . .	FA . . . . .	Lincoln
Foltz, Edward Henry . . . . .	SAs . . . . .	Humphrey
Ford, Edna Euphemia . . . . .	SA 3 . . . . .	Oakland
Foster, Alice Lella . . . . .	SA 2 . . . . .	Lincoln
Fox, William Dale . . . . .	SAs . . . . .	Council Bluffs, Ia.
Francis, Myrtle Alice . . . . .	FA . . . . .	Lincoln
Frazier, Clifford . . . . .	SA 1 . . . . .	Lincoln
Freeman, Howard . . . . .	HS . . . . .	Lincoln
Freeman, Margaret . . . . .	HS . . . . .	Lincoln
French, Bryan Henry . . . . .	SA 2 . . . . .	Page
Frezey, William . . . . .	SAs . . . . .	Lincoln
Fuchsler, Walter Hugo . . . . .	SA 1 . . . . .	Yutan
Fuerst, Louise Henrietta . . . . .	SA 3 . . . . .	Omaha
Fuller, Harry Sam . . . . .	SA 1 . . . . .	Milford
Fulton, Don . . . . .	SA 1 . . . . .	Red Cloud
Furgason, Leota . . . . .	HS . . . . .	Lincoln
Gaddis, Arthur . . . . .	SA 1 . . . . .	Lincoln
Gage, James Wendell . . . . .	SA 3 . . . . .	Fairbury
Gardner, Alice . . . . .	Sau . . . . .	Gering
Garey, L. F. . . . .	Ex . . . . .	Madison
Garrison, Ralph Waldo . . . . .	SA 3 . . . . .	Blue Springs
Gaston, Grant . . . . .	SAs . . . . .	Gordon
Gayer, Harry . . . . .	HS . . . . .	Morganza, La.
Geary, Reginald Benjamin . . . . .	SA 2 . . . . .	Inman
Gentry, Anna S. . . . .	HS . . . . .	Lincoln
Gentry, Robert . . . . .	HS . . . . .	Lincoln
George, William Floyd . . . . .	SA 1 . . . . .	Bostwick
Gerd, Arvid . . . . .	SA 1 . . . . .	Stanford
Gifford, Lois Mahala . . . . .	SA 2 . . . . .	Lincoln
Gilligan, George Ward . . . . .	SA 3 . . . . .	Lincoln
Gilmer, Cummings . . . . .	SA 1 . . . . .	Ponca
Gingrich, Fred Jacob . . . . .	SA 3 . . . . .	Aurora
Glover, Fay . . . . .	SAs . . . . .	Comstock
Goffe, Jay Emory . . . . .	SA 3 . . . . .	University Place
Gooden, Emma . . . . .	FA . . . . .	Lincoln
Goodman, Blanche Leon . . . . .	SA 1 . . . . .	St. Edward
Goossen, Gerhard . . . . .	SAs . . . . .	DeWitt
Gotfredson, Eli Jay . . . . .	SAs . . . . .	College View
Gould, Charles Morton . . . . .	SA 3 . . . . .	Omaha
Gowen, Ward Earl . . . . .	SAs . . . . .	North Loup
Graff, Raymond Chester . . . . .	SA 3 . . . . .	Bancroft
Gramlich, Fred William . . . . .	SA 3 . . . . .	Papillion
Grant, Alister . . . . .	HSAc . . . . .	Lincoln
Gravert, Effie . . . . .	SA 1 . . . . .	Benson
Graves, Chester Arthur . . . . .	SA 3 . . . . .	Tobias
Graves, Helen . . . . .	SA 2 . . . . .	Lincoln
Green, Cecil Herman . . . . .	SA 1 . . . . .	Elgin
Greenamyer, Irene . . . . .	HS . . . . .	Cheney
Greenman, Genevieve . . . . .	HS . . . . .	Lincoln
Greer, Howard Kenneth . . . . .	FA . . . . .	Lincoln
Gulzow, Hans Henry . . . . .	SAs . . . . .	Grand Island
Gunerud, Lawrence Anderson . . . . .	SA 2 . . . . .	Omaha
Gunn, Earl Sanderson . . . . .	SA 2 . . . . .	Palisade
Gutzmer, Elmer . . . . .	HS . . . . .	Lincoln
Haas, Marjorie . . . . .	HS . . . . .	Syracuse
Hadden, Merritt M. . . . .	SAs . . . . .	Shickley
Haggart, Ethel . . . . .	Ex . . . . .	Ashland
Hajek, Anton . . . . .	SAs . . . . .	University Place
Hall, Carrie . . . . .	Ex . . . . .	Pierce
Hall, Ralph Leslie . . . . .	SAs . . . . .	Wayne
Hall, William Mouras . . . . .	SAs . . . . .	Havelock
Hansher, Herbert William . . . . .	SAs . . . . .	College View
Hanlon, Emmaline Mary . . . . .	FA, (S) . . . . .	Harvard
Hansen, Veda Laurenza . . . . .	SA 3 . . . . .	Archer
Hardin, George E. . . . .	SAs . . . . .	Cambridge

Harding, John Edwin.....	SA 3.....	South Omaha
Harris, Alice .....	HS.....	Nebraska City
Harris, Arthur Elmer.....	SAs.....	Lincoln
Harris, Cecil Glen.....	SA 2.....	Fairbury
Harris, Clarence L.....	SAs.....	Lincoln
Harris, Harry Homer.....	SAs.....	Lincoln
Harris, J. A.....	SAs.....	Lincoln
Harris, Lloyd E.....	SAs.....	Lincoln
Haskell, Riley Kent.....	SA 2.....	Milldale
Hastings, Ray Francis.....	SA 1.....	Grant
Hatch, John Lewis.....	SAs.....	Hartington
Hather, Charles .....	SA 1.....	Ord
Haumont, Joseph Anthony.....	SA 2.....	Elton
Hauserman, Jacob .....	SAs.....	Eustis
Hayes, Paxson Charles.....	SA 1.....	Omaha
Hayward, Alice .....	SA 3.....	Lincoln
Heckman, Albert C.....	SAs.....	Firth
Hector, Lewis Henry.....	SA 1.....	South Auburn
Hedden, Glen .....	SAs.....	Fairmont
Heesacker, Martin H.....	SAs.....	Hay Springs
Heise, Ida W.....	Ex.....	Nebraska City
Hembd, Minnie .....	SA 1.....	Creston
Hendricks, Elmer Lee.....	SA 3.....	Brock
Henry, Norvin .....	SA 2.....	Lincoln
Herman, Richard .....	HSAc.....	Culbertson
Hess, Williard James.....	SA 1.....	University Place
Hickel, Manford R.....	SA 2.....	Lincoln
Higgins, J. C.....	SAs.....	Nelson
Hill, Charles William.....	SA 3.....	Ithaca
Hillis, Grace .....	SA 3.....	Aurora
Hillis, Richard Gilbert.....	SA 3.....	Aurora
Hinze, Otto Alfred.....	SAs.....	Surprise
Hoag, Glen Smith.....	(2 yr.) P 1.....	Shickley
Hoagland, Russell Wooster.....	SA 1.....	Hastings
Hoagland, Thomas Joseph.....	SAs.....	Julian
Hobbs, Grover Bernard.....	SA 1.....	Lincoln
Hobelman, Fred Harry.....	SAs.....	Deshler
Hoch, Edwin Franklin.....	SA 3.....	Lincoln
Hock, Eva F.....	SA 1.....	Lincoln
Hoff, Emma Grinstead.....	FA.....	Humboldt
Hoffman, Libbie .....	(2 yr.) P 1, (S).....	South Omaha
Holding, Tom Lawrence.....	SA 2.....	Whitney
Hollingsworth, Ethel .....	HS.....	Lincoln
Hollingsworth, Rita .....	HS.....	Lincoln
Holyoke, Katherine L.....	SA 2.....	Lincoln
Holyoke, Robert .....	HSAc.....	Lincoln
Horacek, Lucy B.....	SA 1.....	Belgrade
Horacek, Ralph James.....	SA 1.....	Belgrade
Horton, Fern .....	HS.....	Lincoln
Horton, Myrtle .....	HS.....	Burton
Houchin, Hazel .....	Ex.....	Beaver Crossing
Houser, Roland Nellis.....	SA 3.....	Lena, Ill.
Hoy, Frances .....	HS.....	Lincoln
Hudson, Eleanor .....	HS.....	Lincoln
Hugg, Jeanette Mae.....	SA 3.....	Lincoln
Hulbert, Paul Harold.....	SAs.....	Oakland
Hull, Lyle .....	SA 3.....	Gordon
Hunt, John Edward.....	SAU.....	Bayard
Hunt, Leon .....	SA 1.....	Crab Orchard
Huntsman, Frank .....	(2 yr.) P 2.....	Hebron
Hurd, Clarence .....	HS.....	Lincoln
Hurd, Lou .....	Ex.....	Valyrang
Huston, Harry Edwin.....	SA 3.....	Brock
Huston, Walter Lee.....	SA 2.....	Geneva
Ihm, Joseph M.....	SA 2.....	Omaha
Ikari, Shigern .....	HSAc.....	Japan

## ROSTER OF STUDENTS

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Inbody, Roy M.	Ex.	Julesburg, Colo.
Ireland, William B.	Ex.	Ansley
Irwin, Allen Robert	(3 yr.) P 1	Genoa
Ives, Glade	HS	Lincoln
Ives, Louise	FA	Lincoln
Jackson, Charles Wendell	SA 2	Lincoln
Jacobsen, J. E.	Ex.	South Omaha
Jeffrey, Forest Vern	(3 yr.) P 1	Wymore
Jensen, Thomas C.	SAs	Marquette
Jasperson, Lawrence	SA 1	Blair
Joerger, Arthur	SA 2	Lincoln
Johansen, Rasmus	SA 3	Wayne
Johnson, Arvid	SA 1	West Point
Johnson, Carl A.	SAs	Bancroft
Johnson, Edith	Ex.	Weeping Water
Johnson, Gladys	SA 3	Pawnee City
Johnson, Harry E.	SAs	Wausa
Johnson, Herbert Lewis	SA 3	North Loup
Johnson, Martin B.	SAs	Gordon
Johnson, Ray Elof	SAs	Osceola
Johnson, Roy Chester	SA 3	Lyons
Johnson, Roy Garrett	SA 1	Grafton
Johnston, Forrest Raymond	SA 3	Douglas
Jonas, Henry F.	SAs	Schuyler
Jones, Allen Charles	SA 1	Winnetoona
Jones, Arian Hempel	SA 3	Loup City
Jones, Benjamin Harrison	SAs	Allen
Jones, Henry Albert	SA 2	Seward
Jones, William Thomas	SA 3	Andrews
Jordan, Raymond	HSAc	Lincoln
Jorgenson, Henry	SAs	St. Paul
Juracek, Fred	SAs	Verdigre
Kaffenberger, John	SA 2	Plattsmouth
Kaiser, Lillie Minnie	SA 1	Preston
Kastl, Elizabeth A.	SA 1	Bruno
Kean, Verna	HS	Havelock
Keller, Raymond Grenville	SA 1	Omaha
Kelley, Fred	SA 2	Nora
Kennedy, John Ross	SAs	Page
Kennedy, Orion Allen	SA 2	Omaha
Keuten, Diedrich	SA 3	Harbine
Kikuchi, Saburo	HSAc	Sendaig, Japan
Killen, Edgar	HS	Lincoln
Kindig, Albert Sidney	SA 3	Holmesville
Kinney, Albert Edward	SA 2	Elgin
Kinney, Floyd	SA 2	Wymore
Kinney, Guy	SAs	Wymore
Kinney, Ray	SA 1	Elgin
Klahn, Herman H.	SAs	Scribner
Knapple, Luella	SA 3	Lexington
Knight, Vivian	HS	Lincoln
Koester, Anna	SA 2	Scribner
Koester, Fred	SA 1	Weeping Water
Koester, Otto William	SAs	Scribner
Koester, Sophia	SA 3	Weeping Water
Kozlik, Clement Frank	SA 2	Clinton, O.
Kovanda, Rudolph A.	(3 yr.) P 2	Table Rock
Krebs, Bryan J.	SA 2	Scotia
Krebs, Carl T.	SA 2	Scotia
Krejci, Charles	SAs	Exeter
Kruse, Edith Lillian	FA	Lincoln
Kruse, Orvy L.	SA 1	Bethany
* Kuebler, Charles Henry	(2 yr.) P 1	Milford
Kuhn, Ewing	SA 3	Lincoln

\* Deceased.

Lake, Lilburn B.	(3 yr.) P 3, HSAC	Lincoln
Lamb, Joshua Manwaring	SA 1	Williams
Lambertson, Elizabeth	FA	Lincoln
Lantz, Ray J.	SA 3	Kearney
Larsen, Frances	SA 3	St. Paul
Larson, Frederick George	(2 yr.) P 1	Harrison
Larson, Ruby P. M.	Ex	Curtis
Lathrop, Verna	Ex	Nebraska City
Laun, Anna C.	SA 2	Milligan
Lauridsen, Petra Dagma	SA 1	Mason City
Lawler, Esther	HS	Lincoln
Layton, Iva Marie	SA 3	Odell
Leavitt, George Arthur	SAs	Crete
Lehmkuhl, Lloyd Henry	SA 3	Weston
LeMay, Myrtle	HS	Denton
Leopold, Theodore H.	SAs	Orleans
Lewis, Garland Edison	(2 yr.) P 1	Broken Bow
Lewis, John J.	SA 1	Hayes Center
Lheureux, Roland J.	SAs	Campbell
Lichtenstiger, Faye	HS, HSAC	Lincoln
Liebers, Anna	SA 3	Minden
Liebers, Frederick August	SA 1	Minden
Liebers, Hedwig Antonia	SA 3	Minden
Lindberg, Frederick Wilhelm	SA 3	O'Neill
Lindberg, Elinor Spurgeon	SA 3	Polk
Lindburg, Ruth	SA 2	Polk
Liston, Clarence L.	SA 1	Wallace
Livingstone, Marion F.	Ex	Nebraska City
Lockmon, Carl E.	Ex	Rushville
Logan, Rena White	SA 3	Sheldon, Ia.
Loghry, Florence	Ex	Inland
Lonergan, Grace M.	SA 2	Florence
Loseke, Emil G.	SAs	Columbus
Loseke, Ernest Walter	SA 2	Columbus
Loughbridge, Olive	SA 2	Lincoln
Luckey, Hattie F.	SA 3	University Place
Luebs, Albert Ernest	SA 2	Wood River
Lueck, Will F.	SAs	Areadia
Lundburg, Felix E.	SAs	Bloomfield
Lundburg, Fred W.	SAs	Bloomfield
Lynn, Laura Marie	SA 3	Minden
Lyons, John	HS	Asylum
McAllister, James H.	SAs	Mason City
McBride, Florence	HS	Lincoln
McCall, M. R.	Ex	North Loup
McCarthy, Joseph Thomas	SA 3	Spalding
McCaslin, Roy	SAs	Fairbury
McClean, Elmer M.	SA 2	Fremont
McClellan, Hazel Brown	SA 2	Lincoln
McConnell, Abigail Mary	SA 3	St. Paul
McCord, Harold	SA 2	Colon
McCormick, Emma	Ex	Lincoln
McDonald, Allen Herbert	SA 3	Geneva
McFarland, Harry A.	Ex	South Omaha
McKnight, Winfield	SA 3	Lincoln
Macdougal, Jennie	HS	Lincoln
Mach, C. J.	Ex	Whitman
Magee, Wayland W.	SAs	Bennington
Major, Alford Monroe	SA 3	Tekamah
Major, Leslie James	SAs	Smithfield
Malick, Allan Thurman	(2 yr.) P 2	Bloomington
Maloy, Madge	SA 2	Omaha
Maloy, Mayme	SA 3	Omaha
Mammen, Henry F.	SAs	McClelland, Ia.
Manley, Jesse L.	SA 2	Lyons
Mapes, Carroll	SA 2	Lincoln

## ROSTER OF STUDENTS

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Maple, Florence E.	Ex.	Richland
Marsh, Benton L.	SA 3	University Place
Marshall, Leila Fern.	SA 3	Lincoln
Marshall, U. A.	Ex.	Gothenburg
Matteson, George H.	SAU	Lincoln
Mattock, Earl James	SA 3	Bladen
Mawe, Vesta	HS	Lincoln
May, J. H.	SAs	Fremont
Mayer, Emil Louis.	SAs	Davenport
Meese, Charles Ogle.	SA 2	Ithaca
Meese, Dorothy	SA 3	Lincoln
Megee, Harry	HS	Lincoln
Merryfield, Leroy Abbey.	Pu.	Lincoln
Metcalfe, Theodore	HS	Lincoln
Metz, Arthur	SAs	Sioux
Meyers, Roger	HS	West Lincoln
Miller, James S.	SAs	Lincoln
Miller, John Louman.	SA 3	Simeon
Miller, Joseph J.	SAs	Dorchester
Miller, Newton Vahle	SA 1	Orleans
Miller, O. B.	Ex.	Brunswick
Minor, Marie Anna.	SAU	Lincoln
Mitchell, Lulu	HS	Lincoln
Mitchell, Mildred	FA	Alma
Mockett, Florence	HS	Lincoln
Mohr, William	Ex.	Culbertson
Monfort, Davida	Ex.	Randolph
Monnich, Delia Amanda.	SA 3	Hooper
Montgomery, Phillip Henry	SA 2	Elwood
Montgomery, Wayne	HS	Lincoln
Moore, Alice	Ex.	Sutton
Moore, Robert Leo.	SA 3	Decatur
Moore, Walter Edwin.	SAU	Tekamah
Morrasy, Albert C.	SAU	Lincoln
Morse, C. K.	Ex.	Caldwell, Idaho
Moyer, Claire Willis.	SA 3	Ceresco
Moyer, Veryl Nash.	SA 3	Ceresco
Muhm, John R.	SAs	Randolph
Munson, Carl	HS	Lincoln
Munson, Leta	HS	Lincoln
Murray, Charles Arthur	SA 2	Elwood
Naess, Peter O.	HSAc.	College View
Nanba, Hakaru	SAs.	Loup City
Neafus, John Henry.	SA 3	Elgin
Needham, Emma	HS.	Bostwick
Neff, Audobon	Ex.	Gretna
Nelson, Carl John.	SAs	Hildreth
Nelson, Carl W.	SAs.	Hildreth
Nelson, Edwin Clark.	SA 3	Superior
Nelson, Joseph Clarence.	SA 2	Oakland
Newquist, Hilbert R.	SAs.	Genoa
Nickolas, Harry	SA 3	Stanton
Nicoles, Samuel Miller	SA 2	Omaha
Nider, Claude Clarence	SA 1	Fairbury
Niehaus, Emil	SA 1	McClelland, Ia.
Nielsen, Harry Osmond.	Pu.	Hastings
Norby, Joseph	SAs.	Bancroft
Nordstrom, Esther	HS	Havelock
Nordstrom, Lillian	HS	Havelock
North, Earl Edward.	SA 2	Harvard
Northrup, Paul	HS	Lincoln
Norton, Olive E.	SA 2	Lincoln
Novak, Edward M.	SAs.	Allen
Novotny, Jaroslav	SA 3	Clarkson
Novotny, Mary	Ex.	Center Point
Novotny, Rudolph	SAs.	Clarkson

Nuetzman, Otto William . . . . .	SA 3 . . . . .	Denton
Nyrop, Ernest C . . . . .	Ex . . . . .	Clearwater
Ochsner, Elmer . . . . .	SAs . . . . .	Sarovolta
Offill, Guy Wesley . . . . .	SAu . . . . .	College View
Olinger, Elmer M . . . . .	SAs . . . . .	Tekamah
Ollis, Ruth Eleanor . . . . .	SA 3 . . . . .	Ord
Orlofsky, Goldie . . . . .	FA . . . . .	Lincoln
Orr, Gertrude . . . . .	Ex . . . . .	Broken Bow
Osborn, James Edward . . . . .	SA 1 . . . . .	Council Bluffs, Ia.
Osborn, Marion V . . . . .	HSAc . . . . .	Lincoln
Otto, Homer M . . . . .	SA 3 . . . . .	Phillips
Otto, Roy Basting . . . . .	SA 3 . . . . .	Aurora
Packard, Helen . . . . .	SA 1 . . . . .	Lincoln
Paige, Francis . . . . .	HSAc . . . . .	Lincoln
Paine, J. L . . . . .	HSAc . . . . .	Lincoln
Parsons, Verner DeWitt . . . . .	Pu . . . . .	Havensville, Kans
Pascoe, Paul . . . . .	SAu . . . . .	Fremont
Pate, W. R . . . . .	Ex . . . . .	Alliance
Patterson, Mary R . . . . .	FA . . . . .	Bloomington
Paulson, Frank M . . . . .	SAs . . . . .	Minden
Paulus, Frederick William . . . . .	SA 3 . . . . .	Inland
Pay, Esther . . . . .	HS . . . . .	West Lincoln
Pay, Ethel . . . . .	HS . . . . .	West Lincoln
Pearce, Sidney . . . . .	SA 3 . . . . .	Lincoln
Pearse, Ernest Nathaniel . . . . .	SA 1 . . . . .	Genoa
Pearson, Gilbert A . . . . .	SAs . . . . .	St. Edward
Pearson, Oscar M . . . . .	SAs . . . . .	Mullen
Pearson, Victor Nels . . . . .	SA 2 . . . . .	Genoa
Penner, John . . . . .	SAs . . . . .	Beatrice
Penny, Marc A . . . . .	SA 2 . . . . .	Sargent
Perrin, Roscoe . . . . .	HS . . . . .	Roca
Peters, Henry . . . . .	SA 1 . . . . .	Scribner
Peterson, Anton C . . . . .	SAs . . . . .	Lindsay
Peterson, Clara Alice . . . . .	SA 1 . . . . .	Florence
Petrting, Katherine I . . . . .	SA 3 . . . . .	Nebraska City
Pettitt, Frank Andrew . . . . .	SA 3 . . . . .	Elmcreek
Pfeiffer, Herbert H . . . . .	SAs . . . . .	Hooper
Pfluger, C. C . . . . .	SAs . . . . .	Wayne
Phelps, Della . . . . .	Ex . . . . .	Douglas
Phelps, Paul . . . . .	SA 1 . . . . .	Lincoln
Philipsen, Moldt Henry . . . . .	SA 3 . . . . .	Hickman
Phillips, Bessie . . . . .	HS . . . . .	Henderson, Ia.
Pickering, John Philip . . . . .	SA 3 . . . . .	Steele City
Pickett, E. C . . . . .	Ex . . . . .	Arnold
Pierce, Gilmore . . . . .	HS . . . . .	Lincoln
Place, Edgar Shandon . . . . .	SA 3 . . . . .	Tecumseh
Platt, Ross . . . . .	HS . . . . .	Oelwein, Ia.
Plumer, William Emerson . . . . .	SA 3 . . . . .	Lincoln
Polk, Marguerite . . . . .	HS . . . . .	Lincoln
Pollard, Hall Adison . . . . .	SA 3 . . . . .	Nehawka
Pollock, John W . . . . .	SA 1 . . . . .	Hartington
Pomajzle, Vaclav J . . . . .	SA 1 . . . . .	Wilber
Pomajzle, Adolph . . . . .	SA 1 . . . . .	Wilber
Pomeroy, Ross . . . . .	SA 1 . . . . .	Allen
Pope, Ruth . . . . .	HS . . . . .	Lincoln
Porter, William V . . . . .	SAu . . . . .	Lincoln
Poska, Sidney . . . . .	HS . . . . .	Lincoln
Pospisil, William . . . . .	SAs . . . . .	Dorchester
Posson, Melanthon Braham . . . . .	SA 2 . . . . .	Eureka
Post, Verner William . . . . .	SA 3 . . . . .	Stratton
Powers, Hildegard . . . . .	HS . . . . .	Lincoln
Pratt, Frances . . . . .	HS . . . . .	Lincoln
Proper, Verne . . . . .	Ex . . . . .	Nebraska City
Proudfit, Juliet . . . . .	HS . . . . .	Lincoln
Pumphrey, Floyd . . . . .	SA 1 . . . . .	Ohioawa
Quivey, Lynn Arthur . . . . .	Ex . . . . .	Cozad

Raasch, Hugo W.	SAs.	Norfolk
Ramplin, Pearl	SA 1	Lincoln
Randel, Elmer Chester	SAu.	McCook
Rawlings, Gladys	FA, (S)	Lincoln
Rebuck, Floyd	HS.	Lincoln
Reed, Earl Vernet	FA.	Lincoln
Reed, Glen Hobert	SA 3	Lincoln
Rees, William H.	SA 2	Carroll
Reher, Arthur	SAs.	Grand Island
Reiher, Leonard	SA 3	Red Cloud
Reim, Robert R.	SA 1	Lincoln
Renard, Edward John	SA 2	Arlington
Rhine, Harold	HS.	Lincoln
Rice, Opal M.	Ex.	Sterling
Rice, William Gramlich	SA 3	Bridgeton, N. J.
Richards, Helen	SA 2	Lincoln
Riddlebarger, Mrs. Clarence E.	FA.	Belleview, Kans.
Riggs, Joy	HS.	Thedford
Ring, Gladys Mary	SA 2	Cheney
Ring, Susanna	SA 3	Cheney
Riordan, John A.	SA 1	Beaver Crossing
Ripley, George H.	SA 2	Aladdin, Wyo.
Risden, Sarah	HS.	Lincoln
Roberts, Faye	HS.	West Lincoln
Roberts, Walter Freeman	SA 2	Wabash
Robertson, George C.	SAs.	Joy
Rodgers, J. Sheldon	SA 1	Lincoln
Roe, Benjamin C.	SA 3	Omaha
Roemnich, Caroline M.	SAu.	Benkelman
Rogers, Mary Elinor	(2 yr.) P 1, (S)	Lincoln
Rogers, Paul Martin	(2 yr.) P 1	Ragan
Rogers, Wilbur Anthony	SA 3	Ord
Rohman, Essabell Marie	FA.	Lincoln
Rokahr, Fritz Carl	SA 1	Menus
Ross, Eva Marie	SA 2	Alliance
Rouse, Verne Enoch	SA 3	Grand Island
Rowley, Clifford George	SA 2	North Platte
Rowley, Leonard Earl	SA 1	Hampton
Roy, Edwin Earl	SA 3	Lincoln
Royce, Floy	HS.	Lincoln
Ruhnka, Gertrude	Ex.	Pierce
Ruhter, Carl William	SAs.	Holstein
Rush, Roma	HS.	Lincoln
Russman, William Alexander	SAs.	Bancroft
Ryan, Matthew William	(2 yr.) P 1	Wymore
Rydb erg, Carl Milton	SA 3	Wood River
Rystrom, Alvin F.	SAs.	Stromsburg
Rystrom, Raymond	SA 2	Stromsburg
Sacks, Ines	HS.	Bethany
Safford, Elizabeth	HS.	Lincoln
Safford, Frank Edward	SA 3	Waterloo
Sandahl, Edward L.	SAs.	Wakefield
Sandstrom, Lottie	SA 2	Ceresco
Sanford, Genevieve	HS.	Lincoln
Sanford, Virginia	(Ex)	Omaha
Sarnes, Charles	HS.	Lincoln
Savage, Warren Curtis	SA 2	Spalding
Sawyer, Lester H.	SAs.	Bloomfield
Scheel, Bernhardt	SAs.	Grand Island
Schelkopf, Martie A.	SAs.	Shickley
Schmidt, Edward	SAs.	Fairmont
Schmidt, Elizabeth	Ex.	Wolbach
Schmidt, Frieda A.	SA 1	Emerald
Schmidt, Nelda A.	FA, (S)	Lincoln
Schoenbeck, Helen Mary	SA 3	Odell
Schrepf, Mary	HS.	Lincoln

Schufeldt, Paul Estes.....	SA 1.....	Eustis
Scofield, James Norman.....	SA 3.....	Lincoln
Scofield, John Howard.....	SA 2.....	Lincoln
Scott, Robert .....	SA 1.....	Logan, Kans.
Scott, Roy D.....	SAs.....	Ponca
Sell, Albert Emil.....	Ex, SA 3.....	Milford
Shabouth, J.....	HSAe.....	Lincoln
Shane, Clifford G.....	SAs.....	Sioux
Shavlik, James Leonard.....	SAs.....	Linwood
Shaw, Katie .....	Ex.....	Adams
Shea, Margaret .....	Ex.....	Sterling
Shea, Mildred .....	HS.....	Raymond
Shepherd, Helen .....	HS.....	Lincoln
Shepherd, Joseph Ben.....	SA 3.....	College View
Sherburne, Robert Henry.....	SA 1.....	Loretto
Shinn, Lillian .....	SA 1.....	Lincoln
Shire, Ray E.....	HSAe.....	Normal
Shires, Carlos .....	SA 1.....	Mead
Shockey, Henry .....	HSAe.....	Lincoln
Short, Edward M.....	Ex.....	Bloomington
Shroyer, George Andrew.....	SA 3.....	Grafton
Siegrist, Florence .....	SA 2.....	Ceresco
Sigler, Mary .....	HS.....	College View
Simmons, Cora A.....	Ex.....	Western
Sjogren, Henry Edwin.....	SA 1.....	Funk
Sjogren, John Wilhelm.....	SA 3.....	Funk
Skinner, C. J.....	Ex.....	Berlin
Sklenar, Rose .....	SA 2.....	Weston
Skow, Somers A.....	SAs.....	Irvington
Skudrna, Anton .....	SA 3.....	Chicago, Ill.
Smith, Arthur H.....	SAs.....	Franklin
Smith, Charles Ray.....	SA 3.....	Trenton
Smith, Clarence .....	HS.....	Lincoln
Smith, Ernest L.....	SAs.....	University Place
Smith, George Percy.....	SA 1.....	Lamar
Smith, Roy A.....	Ex.....	Culbertson
Snell, Edna .....	Ex.....	Benson
Snodgrass, Wilber Starr.....	SA 2.....	Brock
Snyder, Russell Charles.....	SA 3.....	Loup City
Softley, Bruce J.....	SAs.....	Grafton
Sohlberg, Joseph Emmanuel.....	(3 yr.) P 3.....	Oakland
Spilker, William F.....	SAs.....	DeWitt
Stanley, Harold Belmont.....	SA 1.....	Riverton
Starr, Harold .....	SA 2.....	Lincoln
Steadman, Joseph Robert.....	SA 3.....	Stella
Stech, Katherine Helen.....	Ex.....	Milligan
Steckelberg, Anna .....	Ex.....	Plymouth
Steele, Clark .....	SA 1.....	Holmesville
Steele, Laura .....	SA 2.....	Holmesville
Stenger, Emma E.....	SAn.....	St. Paul
Stephenson, Byron .....	HS.....	Lincoln
Stevens, Robert H.....	SAs.....	Leigh
Stewart, Owen Pressley.....	Ex.....	Sterling
Stich, Charles .....	SAs.....	Dorchester
Stockdale, W. T.....	Ex.....	Chadron
Stockfield, Edward .....	HS.....	Lincoln
Stoddard, Lois .....	SAn.....	Auburn
Stoltnow, Martha J.....	Ex.....	Benson
Stone, Charles F.....	SAs.....	Comstock
Storm, Ruth .....	HS.....	Lincoln
Storrs, Harriet A.....	Ex.....	Bellevue
Stout, H. G.....	Ex.....	Sumner
Stowe, Walter Herbert.....	(2 yr.) P 1.....	Lincoln
Stowell, Harold Clemont.....	SA 1.....	Lincoln
Streeter, Lenore .....	HS.....	Lincoln
Streitz, Walter .....	SA 1.....	Millard

## ROSTER OF STUDENTS

495

Strickland, Vivian Lewis.	Ex.	Tecumseh
Stubbe, Henry	SA 2.	Central City
Stuehmer, Ernest H.	SAs	Scribner
Stumph, Olva	SA 1.	Whitney
Sudbeck, August	SA 1.	Hartington
Sullivan, Frank Charles.	SA 1.	Lincoln
Summerer, John Ernest.	SAs	Bliss
Sumner, J. T.	Ex.	Schuyler
Sundburg, Sedrick William.	SA 1.	Aurora
Sutton, Anna May.	SA 2.	Wahoo
Sutton, Ellen Ely.	SA 2.	Wahoo
Svec, James Paul.	SAs	Howells
Svoboda, Carl	SAu	De Soto
Svoboda, Estella	SA 2.	St. Paul
Swanson, Philbert Oscar.	SA 3.	Funk
Sweney, Mary	Ex.	Humphrey
Swingle, Calvin LaMar.	SA 1.	Lincoln
Tannehill, Clyde	SA 1.	Norfolk
Taylor, Burke W.	HSAc	Lincoln
Temple, Lee	HS.	Hallam
Terry, John E.	SA 2.	Monroe
Thomas, Helen L.	SA 3.	Lincoln
Thompson, Benjamin Harrison.	SA 3.	Riverton
Thompson, Charles	SAs.	Omaha
Thompson, Lee William.	SA 2.	Lincoln
Thompson, Loys Arland.	(2 yr.) P 1	Overton
Thorpe, Berta Florence.	(3 yr.) P 3	Broken Bow
Thrapp, Elmo Edward.	SA 3.	Ulysses
Thurber, Alleyn Newman.	SA 2.	Lincoln
Tipperry, Roy	SA 1.	Decatur
Tophen, Alfred Joseph.	(2 yr.) P 1	Hartington
Townsend, Pearl	Ex.	David City
Trott, Marie	SA 2.	Lincoln
Trotter, Harley Elijah.	SA 3.	Spalding
Troup, Grace	HS.	Lincoln
Troyer, Ethel	HS.	Lincoln
Tupper, Bryan	SAu	Riverton
Tupper, Joseph Molton.	(2 yr.) P 1	Osmond
Tupper, Moulton	SA 2.	Lincoln
Turner, Glen L.	SA 1.	Bethany
Ulrich, Fred	SAs	Hoskins
Urban, Edward	SA 1.	Ewing
Urban, Sister M.	Ex.	St. Louis, Mo.
Vanderhoof, Fern	Ex.	St. Edward
Van Wie, Harriet.	HS.	Waverly
Vasey, Walter George.	SAs	Almy
Victor, Glen Gifford.	SA 2.	Wilcox
Vifquain, John Sterling.	SAs.	University Place
Vincent, Lee B.	SA 2.	Lincoln
Von Essen, Walter Henry.	SA 1.	Oakland
Vorce, Carl William.	SAs.	Western
Vorhees, Edson	HS.	Lincoln
Wade, Nina H.	SAu	McCook
Wagchner, Lillith	Ex.	Douglas
Wagner, Glenn S.	SAs.	Beatrice
Wagner, Walter W.	SAs.	Tilden
Waite, Marshall S.	SA 2.	Lincoln
Walker, Earl Fisk.	(2 yr.) P 2	University Place
Wallace, William Gordon.	(3 yr.) P 1	Havelock
Walline, Carl Verner	SA 2.	Funk
Walline, Herman	SAs.	Ceresco
Walvoord, Antonette	HS.	Holland
Ward, William Edward.	SA 1.	Ulysses
Ward, Wylie Ray.	SA 3.	Overton
Warner, Blanche	Ex.	Ericson
Warner, Estella	HS.	Roca

Waterman, Marguerite	FA	Lincoln
Watkins, Marion	HS	Lincoln
Weaver, Margaret L.	HSAc	Beatrice
Weigand, Guy	HS	Lincoln
Wellensick, Carl William	SAs.	Syracuse
Wellensick, Otto II	SAs.	Syracuse
Wells, Charles Edward	SA 2	College View
Wells, Jessie M.	Ex.	Gering
Wells, Teresa	Ex.	Gering
Wentz, Lawrence Eugene	SA 2	Lincoln
Wentz, Leland E.	HSAc	Lincoln
Wessels, Garrett	SAs.	Franklin
West, Helene	Ex.	Syracuse
Westerhoff, J. C. W.	Ex.	Carleton
Westhafer, Walter C.	SA 1	Lincoln
Weston, John Waldo	SA 2	Beatrice
Westover, Hazel	SA 1	Lincoln
Weyant, Romer G.	HSAc	Lincoln
Whedon, Charles L.	SAU.	Raymond
Wheeler, Addie L.	SA 2	Lincoln
White, Bonita	HS	Lincoln
White, Paul	HS	Lincoln
Whitmore, Alice	FA	Lincoln
Whitmore, Roland Monroe	SA 3	Elgin
Whitmore, Victor	HSAc	Lincoln
Widney, Grace	HS.	North Henderson, Ill.
Wilberger, Ray Frank	SA 2	Julian
Wilcox, Lemuel Rex	SA 2	Arborville
Wildman, Virgil S.	SA 3	Memphis, Mo.
Wilke, Erma	FA	Lincoln
Wilkens, Carl William	SA 3	DeWitt
Wilkinson, Harry J.	SA 2	Lincoln
Wilkey, Eda	HS	Smithfield
Wilkey, Esta	HS	Smithfield
Willard, Virgil Parkins	SA 1	Omaha
Williams, Curtis Lambert	SA 3	Stella
Williams, Edna	FA	Lincoln
Williams, H. R. H.	EX	Grand Island
Williams, James	HS	Raymond
Wilmeth, Hal	HSAc	Lincoln
Wilson, Joe	HS	Lincoln
Wilson, Kittie M.	Ex	Osceola
Wilson, Leona	HS	Normal
Wintermute, Russell C.	SAs.	Western
Wisner, Lucile	Ex.	Benson
Wiswell, Charles T.	SA 1	Gresham
Withers, Gladys	HSAc	Lincoln
Witte, Arnold	SA 1	Scribner
Wolfe, Wayne A.	SAs.	Lincoln
Wood, Fannie Lyon	SA 3	Lincoln
Woods, Eugenia	SA 1	Lincoln
Woods, Frederick Pace	SA 2	Lincoln
Woods, Walter Edward	SA 1	Lincoln
Wright, Ione	HS	Lincoln
Yates, Della May	SA 3	Geneva
Yensen, Joseph Horden	SA 3	Lowell
Yont, Lily	FA	Lincoln
Young, Daniel William	SA 1	Mitchell
Young, Olivia Mildred	(2 yr.) P 2, (S)	Palmyra
Zeilinger, Thomas Leroy	SAs.	David City
Zeller, Florence Lucile	SA 3	Sioux City, Ia.

SUMMARY OF STUDENTS

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1911-1912

SUMMARY OF STUDENTS IN THE COLLEGES

	Men	Women	Total
The Graduate College . . . . .	142	122	264
The College of Arts and Sciences			
Fourth Year . . . . .	97	136	
Third Year . . . . .	114	159	
Second Year . . . . .	145	181	
First Year . . . . .	229	218	
Unclassified . . . . .	59	218	
	644	912	1556
The Teachers College			
Fourth Year . . . . .	5	73	
Third Year . . . . .	13	66	
	18	139	157
The College of Engineering			
Fourth Year . . . . .	53	...	
Third Year . . . . .	68	...	
Second Year . . . . .	116	...	
First Year . . . . .	131	...	
Unclassified . . . . .	16	...	
	384	...	384
The College of Agriculture			
Fourth Year . . . . .	22	11	
Third Year . . . . .	29	14	
Second Year . . . . .	52	31	
First Year . . . . .	96	45	
Unclassified . . . . .	9	23	
	208	124	332
The College of Law			
Third Year . . . . .	43	...	
Second Year . . . . .	91	...	
First Year . . . . .	77	...	
Unclassified . . . . .	24	1	
	235	1	236
The College of Medicine			
Doctor of Medicine <i>cum laude</i> . . . . .	2	...	
Fourth Year . . . . .	8	1	
Third Year . . . . .	9	2	
Second Year . . . . .	25	2	
First Year . . . . .	21	2	
Unclassified . . . . .	17	...	
Second Year, Six-Year Combined Course . . . . .	33	1	
First Year, Six-Year Combined Course . . . . .	38	1	
	153	9	162
Grand Total (Men, 1784; Women, 1307) . . . . .			3091
Repeated Names (Men, 176, Women, 145) . . . . .			321
Total Registration (Men, 1608; Women, 1162) . . . . .			2770

1911-1912

**SUMMARY OF STUDENTS IN THE SCHOOLS AND IN THE  
DEPARTMENT OF UNIVERSITY EXTENSION**

	Students in Schools including those registered also in the Colleges.		Students in Schools exclusive of those registered also in the Colleges.		
	Men	Women	Men	Women	Total
The School of Agriculture					
Nine Months Course.....	316	98	315	97	
Six Weeks Course .....	161	1	161	1	
	477	99	476	98	574
The School of Fine Arts					
Nine Months Course .....	10	67	2	31	33
The School of Pharmacy					
Two-Year Course (Nine Months).....	27	4	25	3	
Three-Year Course (Nine Months)....	6	1	6	1	
Four-Year Course (College Course)...	10	1			
	43	6	31	4	35
The Teachers College High School					
Nine Months Course .....	50	79	50	76	
Academy (Nine Months Course).....	51	13	26	7	
	101	92	76	83	159
University Extension					
May 1, 1911, to May 1, 1912.....	62	86	35	55	90
Grand Total (Men, 620; Women, 271).....					891
Deduct for repeated names (Men, 3; Women 1).....					4
Total Registration (Men, 617; Women, 270).....					887

**GRAND TOTAL OF UNREPEATED NAMES**

Colleges, Schools, University Extension (Men, 2225; Women, 1482).....	3657
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